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**Synopsis of the  
Digenea of  
Mammals of  
North America**

Murray J. Kennedy

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# **Synopsis of the Digenea of Mammals of North America**

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North America  
Mammals of  
Diptera of the  
Synonymy of the

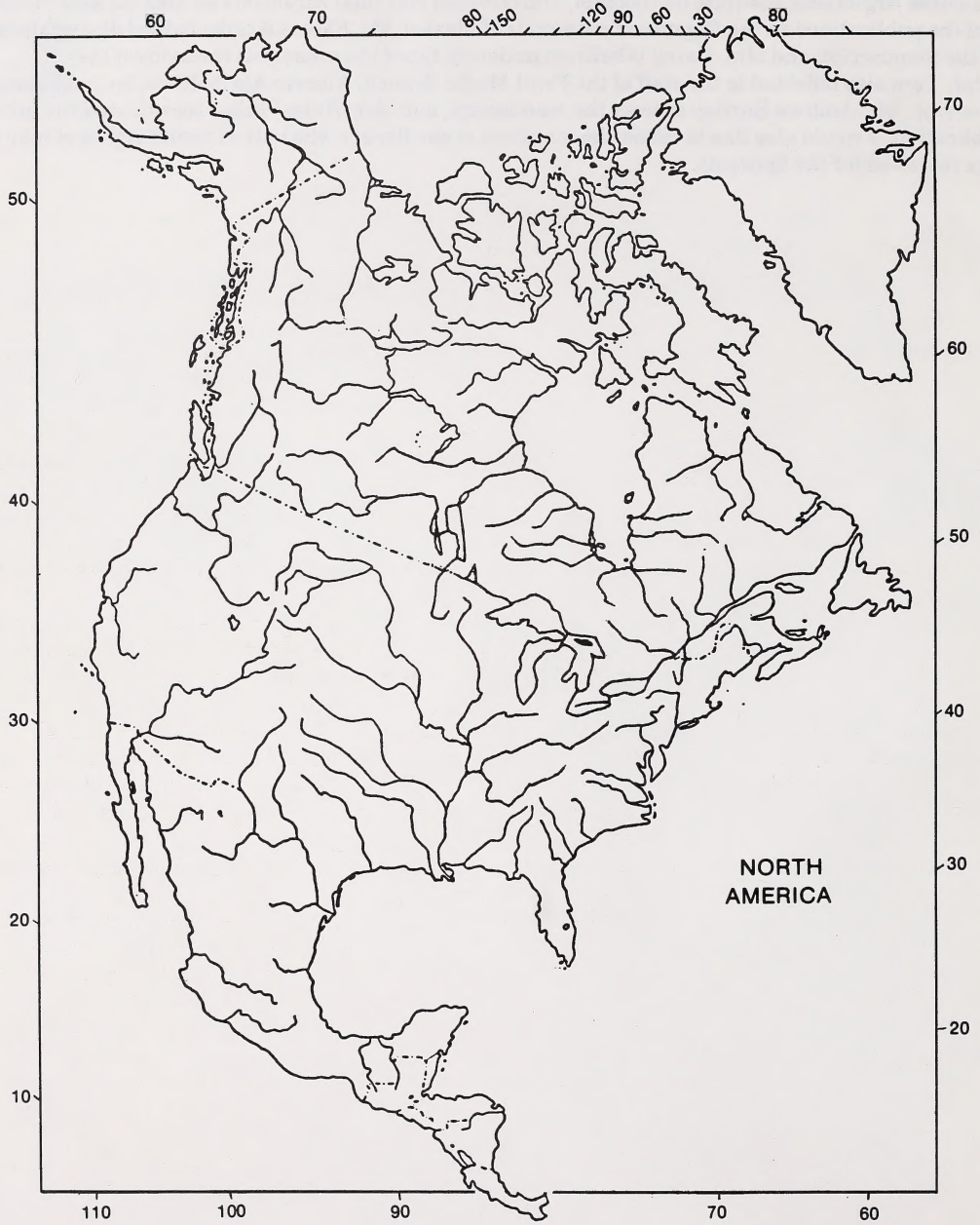
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**Figure 1. Geographic range of hosts covered in this synopsis.**

## INTRODUCTION

The Digenea of North American mammals are still incompletely known, and this synopsis should not be used as a primary source of zoogeographic information, since the completeness of coverage and the geographical range covered vary from author to author and from group to group. The synopsis includes records from continental North America north of Panama (terrestrial mammals) and adjacent oceans (marine mammals)(Figure 1). Canadian arctic islands and Greenland are included in the coverage because of their interconnection with ice and the wide migration of many mammals. Conversely, oceanic islands such as Hawaii (USA), Guadalupe (Mexico), etc., have not been included because of their distance from continental North America.

The compiled information on the Digenea of North America covers the period from 1858 to June 1987, and was extracted from numerous publications in the primary scientific literature. Journal series such as the Canadian Journal of Zoology, Canadian Journal of Research, Journal of Wildlife Diseases, Proceedings of the Helminthological Society of Washington, and the Journal of Parasitology were searched in their entirety. Abstracting series such as Zoological Records and Helminthological Abstracts were scanned for additional references. Theses and reports of federal and provincial governments and of other institutions were not searched extensively, hence, some existing records may have been omitted.

I conducted a least squares regression analysis on the number of papers published since 1858 (Figure 2) to estimate the number of publications we may expect to see in the 1980s. The estimate was based on the multivariate general linear model:  $y = mx + b$  where  $y$  is a vector of dependent variables,  $x$  is a vector of independent variables,  $b$  is a vector of regression coefficients, and  $m$  is a vector of random errors. The analysis predicted  $123 \pm 18$  papers will be published in the 1980s. In the present synopsis 50 papers up to June 1987 were reviewed.

In providing references to the parasite-host-distribution data, I attempted to include only reports based on original records. A list of publications not providing original parasite-host-distribution records but dealing with some aspect of Digenea in North American mammals has been included in a supplementary list of references.

The synopsis indicates that up to June 1987, at least 214 species of Digenea divided among 28 families have been reported from 138 species of mammals of North America. Parasites and hosts not identified to the species level are not included in the total number. The 138 species of mammals are divided among 11 orders and 35 families.

The taxonomic arrangement adopted for the Digenea for the most part follows that of Brooks et al. (1985)(families and orders) and Schell (1985) (genera). Host nomenclature and classification conforms to that of Hall (1981), except that *Odocoileus* rather than *Dama* is used for the white-tailed, mule, and black-tailed deer. The entries in the synopsis are organized in accordance with the format adopted by Margolis and Arthur (1979) in their *Synopsis of the Parasites of Fishes of Canada*.

In the **Parasite-Host list**, species, genera, family, and order names are listed alphabetically. For each parasite species listed, the following information is provided:

1. The current **scientific name**, including author(s) and date(s), followed by any recognized synonyms that may have been used in establishing the North American record(s). Adult and larval stages are recorded separately for the Diplostomidae. No attempt was made to evaluate systematically the validity of published records, but attention is drawn to obvious errors.
2. The **site** of occurrence of the parasite in its host(s) (aberrant sites usually are not included). When the site was not given, the likely site was determined from other records.
3. The **hosts**. Only currently accepted scientific names are given in the Parasite-Host List. Numbers in parentheses after each host name correspond with the numbers assigned to the references establishing the particular parasite-host record(s).
4. **Distribution** (Dist.) Species distribution is indicated by province or territorial boundary (Canada), state (United States) or country (Central America) and are listed in alphabetical order according to the abbreviations listed in Table 1.

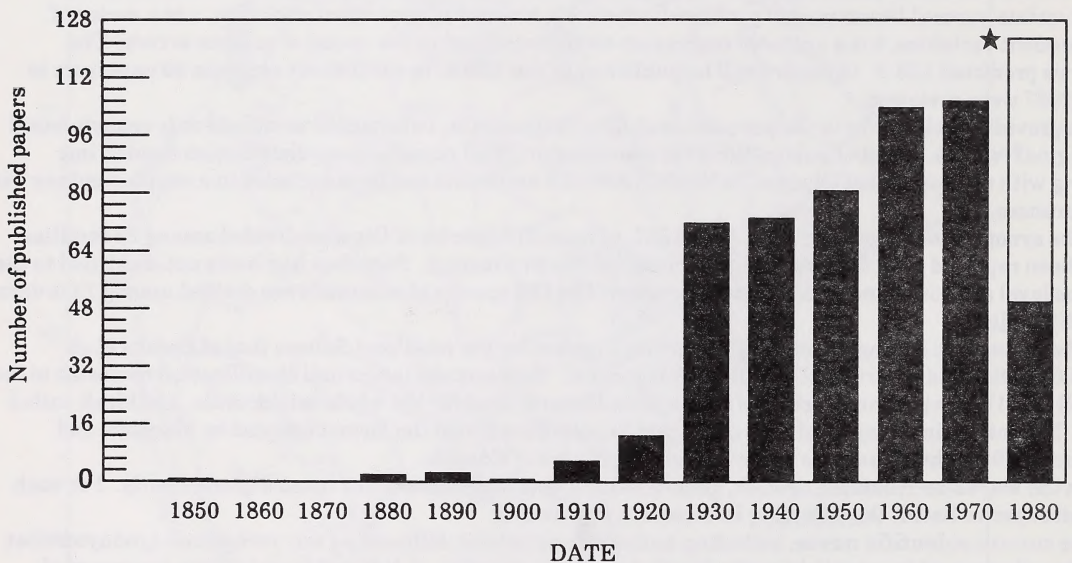
5. **Authors** responsible for the records are listed in chronological order of the published records. The records are numbered and each reference is followed by the locality or localities from which the parasite was (were) reported. A corresponding number is placed after the host name to indicate the author(s) responsible for particular host-parasite locality records. When only one host is listed for a particular parasite, the references are not numbered, and when all records are from the same locality, the latter was not listed after the authors' names.

6. Under **remarks**, explanatory comments, as required, are offered on systematics, nomenclature, misidentifications, and synonyms of parasites, and on the hosts, sites within hosts, and validity of previous records.

In the **Host-Parasite List**, within each order, the families, genera, species, and subspecies are listed alphabetically. Host synonyms included are only those that were used in establishing the North American parasite records. After the name of each parasite species, its geographic distribution in the host in question is given in parentheses.

The **References** are given in two parts, the first includes those directly referred to in the text, and a second, **Supplementary References** contains a list of publications dealing with various aspects of Digenea of North America mammals but which do not contain original parasite-host records.

**Figure 2** Number of papers published on the Digenea of mammals from 1850 to June, 1987.



★ Predicted number of papers published by the end of 1989.



**Table 1.** List of abbreviations used for parasite distribution data in the synopsis.

Country	Province/Territory/	Abbreviation	Country/State	Abbreviation
Canada	Alberta	Alta	Minnesota	MN
	British Columbia	BC	Mississippi	MS
	Manitoba	Man	Missouri	MO
	New Brunswick	NB	Montana	MT
	Newfoundland	Nfld	Nebraska	NB
	(including Labrador)		Nevada	NV
	Nova Scotia	NS	New Hampshire	NH
	Northwest Territories	NWT	New Jersey	NJ
	Ontario	Ont	New Mexico	NM
	Prince Edward Island	PEI	New York	NY
	Quebec	Que	North Carolina	NC
	Saskatchewan	Sask	North Dakota	ND
	Yukon Territories	YT	Ohio	OH
	<b>State</b>		Oklahoma	OK
United States			Oregon	OR
	Alabama	AL	Pennsylvania	PA
	Alaska	AK	Puerto Rico	PR
	Arizona	AZ	Rhode Island	RI
	Arkansas	AR	South Carolina	SC
	California	CA	South Dakota	SD
	Colorado	CO	Tennessee	TN
	Connecticut	CT	Texas	TX
	Delaware	DE	Utah	UT
	District of Columbia	DC	Vermont	VT
	Florida	FL	Virginia	VA
	Georgia	GA	Washington	WA
	Hawaii	HI	West Virginia	WV
	Idaho	ID	Wisconsin	WI
	Illinois	IL	Wyoming	WY
	Indiana	IN		
	Iowa	ID	Mexico	--
	Kansas	KS		
	Kentucky	KY	(Central America)	
	Louisiana	LA	Belize	--
	Maine	ME	Costa Rica	--
	Maryland	MD	El Salvador	--
	Massachusetts	MA	Honduras	--
	Michigan	MI	Nicaragua	--
			Panama	--



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# **PARASITE - HOST LIST**



**CLASS TREMATODA Rudolphi, 1808**  
**SUBCLASS DIGENEA**  
**van Beneden, 1858**  
**ORDER ECHINOSTOMATIFORMES**  
**LaRue, 1957**

**FAMILY CAMPULIDAE Odhner, 1926**

*Campula oblongata* Cobbold, 1858

Site: bile duct, pancreatic duct,  
hepatopancreatic duct, beneath the  
serous membrane of the liver.

Hosts: *Phocoena phocoena* (1,4,5)  
*Phocoenoides dalli* (2,3,6)

Dist.: CA, Nfld, OR, WA

Records: 1. Ching and Robinson 1959 (WA);  
2. Dailey 1971 (CA); 3. Migaki et al. 1971  
(unspecified); 4. Smith and Threlfall 1973  
(Nfld); 5. Dailey and Stroud 1978 (OR); 6.  
Dailey and Walker 1978 (CA)

*Campula palliata* (Looss, 1885)

Syn.: *Distomum palliatum* Looss, 1885

Site: bile duct, pancreatic duct, liver

Hosts: *Delphinus delphis* (1)

*Steno bredanensis* (3)

*Tursiops nesarnack* (2)

Dist.: Costa Rica, FL

Records: 1. Looss 1885 (Costa Rica); 2.  
Woodard et al. 1969 (FL); 3. Forrester and  
Robertson 1975 (FL)

*Campula rochebruni* (Poirier, 1886)

Syn.: *Distomum rochebruni* Poirier, 1886

Site: bile duct, pancreatic duct,  
hepatopancreatic duct

Host: *Delphinus delphis*

Dist.: CA

Records: Ridgway and Dailey 1972; Dailey  
and Walker 1978

*Hadwenius mironovus* (Krotov and Deliamure,  
1952)

Syn.: *Leucasiella mironovi* Krotov and  
Deliamure, 1952

Site: stomach, duodenum

Host: *Phocoena phocoena*

Dist.: OR

Record: Dailey and Stroud 1978

*Hadwenius nipponicus* Yamaguti, 1950

Site: stomach, duodenum

Host: *Phocoena phocoena*

Dist.: OR, WA

Records: Ching and Robinson 1959 (WA);  
Dailey and Stroud 1978 (OR)

*Hadwenius seymouri* (Price, 1932)

Syn.: *Odhneriella seymouri* (Price, 1932)  
Skrjabin, 1944

Site: intestine

Host: *Delphinapteras leucas*

Dist.: AK

Record: Price 1932

*Lecithodesmus goliath* (van Beneden, 1858)  
Odhner, 1905

Site: bile duct

Host: *Balaenoptera physalus* (1)

*Eschrichtius gibbosus* (2)

Dist.: CA, BC

Record: 1. Margolis and Pike 1955 (BC); 2.  
Rice and Wolman 1971 (CA)

*Lecithodesmus spinosus* Margolis and Pike, 1955

Site: bile ducts

Host: *Balaenoptera borealis*

Dist.: BC

Record: Margolis and Pike 1955

*Orthosplanchnus arcticus* Odhner, 1905

Site: liver, bile ducts

Hosts: *Globicephala melaena* (2,3)

*Phoca hispida* (1)

Dist.: Nfld, NWT

Records: 1. Cooper 1921 (NWT); 2. Cowan  
1966 (Nfld), 3. 1967 (Nfld)

Remarks: Cowan (1966) initially reported  
this species simply as "trematode worms."

*Orthosplanchnus fraterculus* Odhner, 1905

Site: gall bladder, bile duct

Hosts: *Enhydra lutris* (1,2)

*Erignathus barbatus* (1)

Dist.: AK

Records: 1. Rausch and Locker 1951; 2.  
Rausch 1953

*Synthesium tursionis* (Marchi, 1873)

Site: intestine

Host: *Steno bredanensis*

Dist.: FL

Record: Forrester and Robertson 1975

*Zalophotrema hepaticum* Stunkard and Alvey,  
1929

Site: bile duct, liver, small intestine

Hosts: *Eumetopias jubatus* (7)

*Tursiops nesarnack* (3)

*Zalophus californianus* (1,2,4,5,6,7)

Dist.: CA, NY, OR

Records: 1. Stunkard and Alvey 1929 (NY); 2. 1930 (NY); 3. Brown et al. 1960 (CA); 4. Fleischman and Squire 1970 (CA); 5. Sweeney 1974 (CA); 6. Sweeney and Gilmartin 1974 (CA); 7. Stroud and Dailey 1978 (OR)

*Zalophotrema* spp.

Site: brain, liver

Hosts: *Lagenorhynchus obliquoidens* (1)

*Zalophus californianus* (2)

Dist.: CA

Records: 1. Ridgway and Dailey 1972; 2. Schroeder et al. 1973

Campulidae *gen. spp.*

Site: brain, pancreas

Hosts: *Delphinus delphis* (1)

*Erignathus barbatus* (2)

Dist.: AK, CA

Records: 1. Ridgway and Johnston 1965 (CA); 2. Bishop 1979 (AK)

FAMILY ECHINOSTOMATIDAE Looss, 1899

*Baschkirovitrema incrassatum* (Diesing, 1850)

Skrjabin, 1944

Site: stomach, small intestine

Hosts: *Lutra canadensis* (1,3,4)

*Mustela vison* (2)

Dist.: AL, GA, NY, NC

Records: 1. Sawyer 1961 (GA, NY); 2. Miller and Harkema 1964 (NC); 3. 1968 (NC); 4. Fleming et al. 1977 (AL)

*Echinochasmus schwartzi* Price, 1931

Site: small intestine

Hosts: *Ondatra zibethicus* (1,2,3)

*O. z. macrodon* (6)

*O. z. rivalicicus* (4,5)

Dist.: LA, MD, Ont, TX

Records: 1. Price 1931b (MD); 2. Law and Kennedy 1932 (Ont); 3. Chandler 1941 (TX); 4. Byrd and Reiber 1942b (LA); 5. Penn 1942 (LA); 6. Abram 1969 (MD)

*Echinoparyphium contiguum* Barker and Bastron, 1915

Site: duodenum

Host: *Ondatra zibethicus* (1,2,3,4,5,6)

*O. z. obscurus* (7)

Dist.: BC, KS, MI, NE, Nfld, Ont

Records: 1. Barker 1915 (NE); 2. Law and Kennedy 1932 (Ont); 3. Ameal 1942 (MI); 4. Knight 1951 (BC); 5. Sweatman 1952 (Ont);

6. Gash and Hanna 1972 (KS); 7. Rigby and Threlfall 1981 (Nfld)

*Echinoparyphium recurvatum* (vonLinstow, 1873) Luhe, 1909

Syn.: *Distoma recurvatum* vonLinstow, 1873

Site: small intestine

Host: *Ondatra zibethicus obscurus* (4)

*O. z. zibethicus* (1,2,3)

Dist.: IL, ME, Nfld, OH

Records: 1. Meyer and Reilly 1950 (ME); 2. Beckett and Gallicchio 1967 (OH); 3. Jilek 1977 (IL); 4. Rigby and Threlfall 1981 (Nfld)

*Echinoparyphium* spp.

Site: intestine

Hosts: *Alopex lagopus* (3)

*Ondatra zibethicus* (2)

*Vulpes vulpes* (1)

Dist.: GD, IL, NB

Records: 1. Leigh 1940 (IL); 2. MacKinnon and Burt 1978 (NB); 3. Rausch et al. 1983 (GD)

*Echinostoma callawayensis* Barker and Noll, 1915

Syn.: *Echinostomum callawayensis* Barker and Noll, 1915

Site: duodenum

Host: *Ondatra zibethicus*

Dist.: AK, NE, Ont

Records: Barker 1915 (NE); Law and Kennedy 1932 (Ont); Sweatman 1952 (Ont); Dunagan 1957a (AK), 1957b (AK)

*Echinostoma echinatum*

Syn.: *Distomum echinatum*

Site: duodenum

Host: *Ondatra zibethicus*

Dist.: PA

Record: Leidy 1888

*Echinostoma revolutum* (Froelich, 1802) Looss, 1899

Syn.: *Echinostomum armigerum* Barker and Irvine, 1915

*Echinostomum coalitum* Barker and Beaver, 1915

Site: stomach, small intestine, cecum

Hosts: *Castor canadensis* (25)

*Didelphis virginiana* (5,7)

*D. v. virginiana* (13)

*Myocastor coypus bonariensis* (20)

*Ondatra zibethicus*

(1,2,3,4,5,6,8,9,11,13,15,16,18,21,22,27,29,31,33,35)

*O. z. obscurus* (36)

*O. z. occipitalis* (10)

*O. z. osoyoosensis* (19,24)  
*O. z. zibethicus* (12,13,14,17,23,26,32)  
*Procyon lotor* (29)  
*Ursus arctos* (30)  
*Vulpes vulpes* (34)

Dist.: BC, IL, KS, LA, MA, Man, MD, ME,  
MI, MN, MT, NB, NE, Nfld, NS, NY,  
OH, Ont, OR, PA, Que, UT, WI, WY

Record: 1. Barker 1915 (NE); 2. Anonymous  
1930 (Ont); 3. Law and Kennedy 1932 (Ont);  
4. Krull 1935 (MD); 5. Leigh 1940 (IL); 6.  
Ameel 1942 (MI); 7. Byrd and Reiber 1942a  
(IL); 8. Rankin 1946 (MA); 9. Rausch 1946b  
(OH); 10. Rider and Macy 1947 (OR); 11.  
Tiner and Chin 1948 (IL); 12. Edwards 1949  
(NY); 13. Rausch and Tiner 1949 (MI,WI);  
14. Meyer and Reilly 1950 (ME); 15. Knight  
1951 (BC); 16. Sweatman 1952 (Ont); 17.  
Gilford 1954 (IL); 18. Senger and Neiland  
1955 (OR); 19. Senger and Bates 1957 (UT);  
20. Babero and Lee 1961 (LA); 21. Gupta  
1926b (Que); 22. Anderson and Beaudoin  
1966 (PA); 23. Beckett and Gallicchio 1967  
(OH); 24. Grundmann and Tsai 1967 (UT);  
25. Smith and Archibald 1967 (NS); 26.  
Abram 1969 (MD); 27. Gash and Hanna 1972  
(KS); 28. Larson and Scharf 1975 (MN); 29.  
Rice and Heck 1975 (OH); 30. Worley et al.  
1976 (MT,WY); 31. Dyer and Klimstra 1977  
(IL); 32. Jilek 1977 (IL); 33. MacKinnon and  
Burt 1978 (NB); 34. Smith 1978 (NB,NS); 35.  
McKenzie and Welch 1979 (Man); 36. Rigby  
and Threlfall 1981 (Nfld)

#### *Echinostoma* spp.

Syn.: *Echinostomum* sp.  
Site: small intestine  
Hosts: *Didelphis virginiana* (4)  
*Martes pennanti* (1)  
*Ondatra zibethicus* (2)  
*O. z. osoyoosensis* (3)

Dist.: Alta, CO, NC, Ont  
Records: 1. Anonymous 1930 (Ont); 2.  
Swales 1933 (Alta); 3. Ball 1952 (CO); 4.  
Feldman et al. 1972 (NC)

#### *Euparyphium beaveri* Yamaguti, 1957

Site: duodenum, small intestine  
Hosts: *Mustela vison* (1,3,4)  
*Procyon lotor* (2,5,6)  
Dist.: GA, LA, NC, SC, TN, WI  
Records: 1. Lumsden and Zischke 1961 (LA);  
2. Harkema and Miller 1964 (GA,NC,SC); 3.  
Miller and Harkema 1964 (NC); 4. Dorney  
and Lauerman 1969 (WI); 5. Bafundo et al.  
1980 (TN); 6. Schaffer et al. 1981 (NC)

#### *Euparyphium inerme* (Fuhrmann, 1904)

Syn.: *Echinostomum inerme* Fuhrmann,  
1904  
Site: intestine  
Host: *Mustela vison*  
Dist.: Ont  
Records: Law and Kennedy; Price 1932

#### *Euparyphium melis* (Schränk, 1788) Dietz, 1909

Site: stomach, small intestine  
Hosts: *Lepus americanus phaeonotus* (2)  
*Lutra canadensis* (3)  
*Mustela erminea cicognanii* (4)  
*M. vison* (1,3,4)  
*M. v. letifera* (5)  
*Taxidea taxus* (6,7)  
Dist.: IA, MI, MN, ND, Ont, WI  
Records: 1. Law and Kennedy 1932 (Ont); 2.  
Erickson 1940 (MN); 3. Beaver 1941  
(MI,MN); 4. Erickson 1946 (MN); 5. Rausch  
and Tiner 1949 (WI); 6. Leiby et al. 1971  
(ND); 7. Wittrock and Ulmer 1974 (IA)

#### *Euparyphium* spp.

Site: small intestine  
Host: *Taxidea taxus*  
Dist.: MN  
Records: Erickson 1946

#### *Stephanoprora spinosa*

Site: intestine  
Host: *Procyon lotor*  
Dist.: GA  
Record: Schaffer et al. 1981

#### Echinostomatidae gen. sp.

Site: intestine  
Host: *Ondatra zibethicus*  
Dist.: NY  
Records: Bump 1941, 1942

#### FAMILY FASCIOLIDAE Railliet, 1895

#### *Fasciola hepatica* Linnaeus, 1758

Site: bile ducts, liver  
Hosts: *Bison bison* (6,9,10)  
*Bos taurus* (11)  
*Castor canadensis* (12)  
*Cervus elaphus* (3)  
*Lepus americanus* (12)  
*L. californicus merriami* (5)  
*Odocoileus hemionus* (12)  
*O. h. columbianus* (1,7,8)  
*O. virginianus* (12)  
*Odocoileus* spp. (3,4)  
*Sus scrofa* (11)

*Sylvilagus floridanus* (5)

Rabbit (2)

Dist.: BC, CA, GA, LA, MT, TX, WA, WY

Records: 1. Hadwen 1916 (BC); 2. Dikmans 1930 (LA); 3. Butler 1932 (MT); 4. Herman 1945 (CA); 5. Olsen 1948 (TX); 6. Locker 1953 (MT); 7. Longhurst and Douglas 1953 (CA); 8. Browning and Lauppe 1964 (CA); 9. Bergstrom 1967 (WY); 10. Dunn 1968 (unspecified); 11. Prestwood et al. 1975 (GA); 12. Lang 1977 (WA)

*Fascioloides magna* (Bassi, 1875) Ward, 1917

Syn.: *Distoma magnum* Bassi, 1875

*Fasciola magna* (Bassi, 1875)

Site: liver

Hosts: *Alces alces*

(28,30,31,35,40,41,51,54,57)

*A. a. americana* (5,7,44)

*Bison bison* (3,8,9,30)

*Cervus elaphus*

(9,23,24,27,28,30,33,36,41)

*C. e. nelsoni* (42)

*C. e. roosevelti* (42)

*Dicotyles tajacu angulatus* (47)

*Odocoileus hemionus columbianus*

(1,4,8,19,30,37,42)

*O. h. hemionus* (18,30)

*O. virginianus*

(1,8,9,10,11,12,13,14,15,16,17,21,25

26,28,29,32,34,39,42,43,44,46,50,52,

53,56,58,59,60)

*O. v. borealis* (22,35)

*O. v. leucurus* (61)

*Odocoileus* spp. (6,38,41,48)

*Rangifer tarandus caribou* (20,49)

*Sus scrofa* (50,55)

Dist.: AL, Alta, AR, BC, FL, GA, LA, Man, MI, MN, MS, MT, NC, NY, Ont, OR, Que, SC, TN, TX, WA, WI,

Records: 1. Stiles and Hassall 1894a (NY); 2. Hadwen 1916 (BC); 3. Cameron 1923 (Alta); 4. Hadwen 1932 (BC); 5. Fenstermacher 1934 (MN); 6. Levin 1934 (NY); 7. Wallace 1934 (MN); 8. Swales 1935 (Alta,BC), 9. 1936 (Que); 10. Bump 1937 (NY); 11. Aiton 1938 (MT); 12. Dinaburg 1939 (FL); 13. Whitlock 1939 (MI); 14. Bump 1940 (NY), 15. 1941 (NY), 16. 1942 (NY); 17. Cheatum 1942 (NY); 18. Cowan 1942 (BC), 19. 1946 (BC); 20. Erickson and Highby 1942 (MN); 21. Fenstermacher et al. 1943 (MN); 22. Olsen and Fenstermacher 1943 (MN); 23. Kingscote 1947 (Ont); 24. Shaw 1947 (OR); 25. Chaddock 1948 (WI); 26. Olsen 1949b (TX); 27. Anonymous 1950 (Ont); 28. Kingscote 1950 (Ont); 29. Cheatum 1951

(NY); 30. Cowan 1951 (Alta,BC); 31. Peterson 1955 (Ont); 32. Dahlberg and Guettinger 1956 (WI); 33. Kingscote 1957 (Ont); 34. Holland 1959 (AL,FL,LA, MS,SC,TN); 35. Griffiths 1962 (MN); 36. Stelfox 1962 (Alta); 37. Knapp and Shaw 1963 (OR); 38. Senger 1963 (MT); 39. Harlow and Jones 1965 (AL,FL); 40. Loken et al. 1965 (MN); 41. Fyvie 1966 (Ont); 42. Dutson et al. 1967 (OR,WA); 43. Glazener and Knowlton 1967 (TX); 44. Dunn 1968 (unspecified); 45. Flook and Stenton 1969 (Alta,BC); 46. Samuel and Trainer 1969 (WI); 47. Samuel and Low 1970 (TX); 48. Walker and Becklund 1970 (NC); 49. Choquette et al. 1971 (Que); 50. Foreyt and Todd 1972 (TX); 51. Lankester 1972 (Man); 52. Behrend et al. 1973 (NY); 53. Foreyt and Todd 1973 (TX); 54. Lankester 1974 (Man); 55. Foreyt et al. 1975 (TX); 56. Foreyt and Todd 1976 (TX); 57. Samuel et al. 1976 (Alta); 58. Foreyt et al. 1977 (TX); 59. Pursglove et al. 1977 (AL,AR,FL,GA,LA,MS,NC,SC,TN); 60. Foreyt and Drawe 1978 (TX); 61. Foreyt and Hunter 1980 (OR)

FAMILY NASITREMATIDAE (Ozaki, 1953)

*Nasitrema dalli* Yamaguti, 1950

Site: nasal sinus, air sinus

Host: *Phocoenoides dalli*

Dist.: CA

Records: Dailey 1971; Dailey and Walker 1978

*Nasitrema delphini* Neiland, Rice, and Holden, 1970

Site: air sinus

Host: *Delphinus delphis*

Dist.: CA

Record: Dailey and Walker 1978

*Nasitrema globicephalae*

Site: air sinus

Hosts: *Delphinus delphis*

*Lagenorhynchus obliquidens*

*Lissodelphis borealis*

Dist.: CA

Record: Dailey and Walker 1978

*Nasitrema stenosoma* Neiland, Rice, and Holden, 1970

Site: air sinus

Host: *Delphinus delphis*

Dist.: CA



Record: Dailey and Walker 1978

*Nasitrema* spp.

Site: air sinus, brain, muscle

Hosts: *Delphinus delphis* (1,2)

*Lagenorhynchus obliquidens* (1,2)

*Lissodelphis borealis* (1,2)

*Phocoenoides dalli* (2)

Dist.: CA

Records: 1. Schroeder et al. 1973; 2. Dailey and Walker 1978

UNIDENTIFIED NASITREMATIDAE

Nasitreematidae gen. spp.

Site: round window (ear)

Host: *Tursiops nesarnack*

Dist.: unspecified

Record: Dailey and Ridgway 1976

FAMILY PSILOSTOMIDAE Looss, 1900

*Gyrosoma singularis* Byrd, Bogitsh, and Maples, 1961

Site: small intestine

Hosts: *Mustela vison* (3)

*Procyon vison* (1,2)

Dist.: GA, LA, SC

Records: 1. Byrd et al. 1961 (GA); 2. Harkema and Miller 1964 (GA, SC); 3. Shoop and Corkum 1982 (LA)

*Psilostomum ondatrae* Price, 1931

Site: liver

Host: *Ondatra zibethicus*

Dist.: Ont

Record: Price 1931b; Law and Kennedy 1932

*Psilostomum* spp.

Site: intestine

Host: *Mephitis mephitis*

Dist.: LA

Record: Babero 1960b

*Psilotrema* spp.

Site: intestine

Host: *Ondatra zibethicus osoyoosensis*

Dist.: UT

Record: Grundmann and Tsai 1967

*Ribeiroia ondatrae* Babero, 1972, nec Price, 1931

Site: small intestine

Host: *Procyon lotor* (2)

skunks (1)

Dist.: FL

Record: 1. Babero 1972; 2. Schaffer et al. 1981

*Stephanoproraoides lawi* Price, 1934

Site: small intestine

Host: *Castor canadensis*

Dist.: MN, NS, Ont

Record: Price 1934 (Ont); Erickson 1944 (MN); Smith and Archibald 1967 (NS)

FAMILY RHOPALIASIDAE Looss, 1899

*Rhopalias baculifer* Braun, 1900

Site: intestine

Hosts: *Didelphis marsupialis* (1)

*Metachirops opossum fuscogriseus* (2)

Dist.: Costa Rica, FL

Records: 1. Loftin 1960 (FL); 2. Caballero and Gei 1961 (Costa Rica)

*Rhopalias coronatus* (Rudolphi, 1819) Stiles and Hassall, 1898

Site: intestine

Hosts: *Didelphis marsupialis* (5)

*D. m. cauae* (4)

*D. m. tabascensis* (2,3)

*D. virginiana* (1,3)

*Marmosa mexicana mexicana* (3)

*Metachirops opossum fuscogriseus* (6)

Dist.: Costa Rica, FL, Guatemala, Mexico, TX, VA

Records: 1. Stiles and Hassall 1894a (VA); 2. Caballero, Bravo-Hollis and Cerecoro 1944 (Mexico); 3. Caballero 1946 (Guatemala, Mexico, TX); 4. Caballero, et al. 1957 (Costa Rica); 5. Loftin 1960 (FL); 6. Caballero and Gei 1961 (Costa Rica)

*Rhopalias horridus* (Diesing, 1850) Stiles and Hassall, 1898

Site: intestine

Hosts: *Didelphis marsupialis cauae* (2)

*D. virginiana* (1)

*Metachirops opossum fuscogriseus* (3)

Dist.: Costa Rica, Guatemala

Records: 1. Caballero 1946 (Guatemala); 2. Caballero et al. 1957 (Costa Rica); 3. Caballero and Gei 1961 (Costa Rica)

*Rhopalias macracanthus* Chandler, 1932

Site: small intestine

Hosts: *Didelphis marsupialis* (14)

*D. m. tabascensis* (5,6)

*D. virginiana*

(1,2,3,4,7,8,10,11,12,13,15)

*D. v. californica* (16)

*Didelphis* sp. (9)

*Mustela vison* (11)

Dist.: FL, GA, IL, LA, Mexico, NC, OK, PA, TX, TN,

Records: 1. Chandler 1932 (TX); 2. Canavan 1934 (PA); 3. Leigh 1940 (IL); 4. Byrd and Reiber 1942a (TN); 5. Caballero, Bravo-Hollis and Cerecoro 1944 (Mexico); 6. Caballero 1946 (Mexico); 7. Ciordia 1949 (TN); 8. Self and McKnight 1950 (OK); 9. Babero 1957 (IL), 10. 1960a (GA); 11. Lumsden and Zischke 1961 (LA); 12. Miller and Harkema 1970 (NC); 13. Feldman et al. 1972 (NC); 14. Lamothe-Argumedo 1978a (Mexico), 15. Premvati and Bair 1979 (FL); 16. Miyazaki, Kifune, and Lamothe-Argumedo 1980 (Mexico)

## ORDER OPISTHORCHIIFORMES

### LaRue, 1957

#### FAMILY HETEROPHYIDAE Odnher, 1914

*Apophallus venustus* (Ransom, 1920)Cameron, 1936

Syn.: *Cotylophallus venustus* Ransom, 1920  
*Rossicotrema venustus* Deliamure (1956)

Site: small intestine

Host: *Alopex lagopus* (1)

*Phoca vitulina* (4)

*Procyon lotor* (2,3,4,5,7)

Dist.: DC, GA, NC, Ont, OR, SC, VA

Records: 1. Ransom 1920 (DC); 2. Cameron 1936 (Ont), 3. 1937a (Can); 4. Babero and Shepperson 1958 (GA); 5. Harkema and Miller 1964 (GA, NC, SC, VA); 6. Stroud and Dailey 1978 (OR); 7. Schaffer et al. 1981 (NC, VA)

Remarks: The Alaskan fox came from the National Zoological Park in Washington, D.C.

*Apophallus* spp.

Site: intestine

Host: *Mephitis mephitis*

Dist.: Que

Record: Webster and Wolfgang 1956

Remarks: Webster and Wolfgang (1956) believed their species may be *Apophallus venustus*.

*Ascocotyle ampullacea* Miller and Harkema, 1962

Site: small intestine

Host: *Procyon lotor*

Dist.: NC

Records: Miller and Harkema 1962; Harkema and Miller 1964

*Ascocotyle leighi* Burton, 1956

Site: small intestine

Hosts:*Procyon lotor* (2)

*P. l. solutus* (1)

Dist.: SC

Records: 1. Harkema and Miller 1962, 2. 1964

*Ascocotyle pachycystis* Schroeder and Leigh, 1965

Site: small intestine

Host: *Procyon lotor*

Dist.: FL

Record: Schroeder and Leigh 1965

*Cotylophallus similis* Ransom, 1920

Site: intestine

Host: *Phoca vitulina*

Dist.: DC

Record: Ransom 1920

Remarks: The Harbor seal came from the National Zoological Park in Washington, D.C.

*Cryptocotyle concavum* (Creplin, 1825)

Site: intestine

Host: *Alopex lagopus*

Dist.: GD

Record: Rausch et al. 1983

*Cryptocotyle jejuna* (Nicoll, 1907)

Site: small intestine

Host: *Callorhinus ursinus*

Dist.: AK

Record: Neiland 1961

*Cryptocotyle lingua* (Creplin, 1825) Fiscoeder, 1903

Syn.: *Distomum lingua* Creplin, 1825

Site: intestine

Hosts:*Phoca vitulina* (1)

*Vulpes vulpes* (2)

Dist.: DC, NB, NS

Record: 1. Ransom 1920 (DC); 2. Smith 1978 (NB,NS)

Remarks: The specimens were collected by Dr. Albert Hassall from the intestine of *Phoca vitulina* housed at the National Zoological Park, Washington, D.C.

*Euryhalmis monorchis* Ameel, 1938

Site: small intestine

Hosts:*Mustela vison* (1)

*Procyon lotor lotor* (2)

- Dist.: MI, OH, WI  
 Records: 1. Ameal 1938 (MI,OH,WI); 2. Rausch and Tiner 1949 (MI)
- Euryhalmis pacificus* Senger and Macy, 1952  
 Site: small intestine  
 Hosts: *Mustela vison* (1,2)  
*Ondatra zibethicus* (1,2)  
*Sorex bendirii palmeri* (1)  
 Dist.: OR  
 Records: 1. Senger and Macy 1952; 2. Senger and Neiland 1955
- Euryhalmis pyriformis* Webster and Wolfgang, 1956  
 Site: intestine  
 Host: *Mephitis mephitis*  
 Dist.: Que  
 Record: Webster and Wolfgang 1956
- Euryhalmis squamula* (Rudolphi, 1819)  
 Site: small intestine  
 Hosts: *Mustela vison* (2,5)  
*Peromyscus leucopus* (7)  
*Procyon lotor* (1,3,4,8)  
*Urocyon cinereoargenteus* (6)  
 Dist.: GA, NC, OR, TN, WV  
 Records: 1. Parker 1950 (NC); 2. Senger and Neiland 1955 (OR); 3. Babero and Shepperson 1958 (GA); 4. Harkema and Miller 1964 (NC); 5. Miller and Harkema 1964 (NC), 6. 1968 (GA); 7. Zenchak and Hall 1971 (WV); 8. Bafundo et al. 1980 (TN)
- Metagonimoides oregonensis* Price, 1931  
 Site: small intestine  
 Hosts: *Mustela vison* (4,7,11)  
*Procyon lotor* (1,2,5,6,9,10,12,13)  
*P. l. lotor* (8)  
*P. l. pacificus* (3)  
 Dist.: GA, MI, NC, OH, OR, TN, VA  
 Records: 1. Price 1931a (OR); 2. Shaw 1947 (OR); 3. Burns and Pratt 1953 (OR); 4. Senger and Neiland 1955 (OR); 5. Sawyer 1958 (GA); 6. Harkema and Miller 1964 (NC); 7. Miller and Harkema 1964 (NC); 8. Williams and Myer 1964 (OH); 9. Wallace and Wilson 1965 (TN); 10. Lang et al. 1968 (NC); 11. Lang and Vail 1970 (MI); 12. Bafundo et al. 1980 (TN); 13. Schaffer 1981 (GA,NC,VA)
- Phagicola diminuta* (Stunkard and Haviland, 1924)  
 Syn.: *Ascocotyle diminuta* Stunkard and Haviland, 1924
- Parascocotyle lageniformis* (Chandler, 1941)  
*Phagicola lageniformis* Chandler, 1941  
 Site: small intestine  
 Hosts: *Didelphis virginiana* (7)  
*Ondatra zibethicus* (2)  
*Procyon lotor* (5,6)  
*P. l. solutus* (4)  
*Rattus sp.* (1,3)  
 Dist.: FL, NC, NY, SC, TX  
 Records: 1. Stunkard and Haviland 1924 (NY); 2. Chandler 1941 (TX); 3. Stunkard and Uzmann 1955 (NY); 4. Harkema and Miller 1962 (SC); 5. Miller and Harkema 1963 (NC,SC); 6. Harkema and Miller 1964 (NC,SC); 7. Premvati and Bair 1979 (FL)
- Phagicola longa* (Ransom, 1920) Price, 1935  
 Syn.: *Ascocotyle longa* Ransom, 1920  
 Site: small intestine  
 Hosts: *Alopex lagopus* (1)  
*Procyon lotor* (4,5)  
*P. l. solutus* (3)  
*Vulpes vulpes* (2)  
 Dist.: DC, NC, Ont, Que, SC  
 Records: 1. Ransom 1920 (DC); 2. Swales 1933 (Ont,Que); 3. Harkema and Miller 1962 (SC); 4. Miller and Harkema 1963 (NC,SC); 5. Harkema and Miller 1964 (NC,SC)  
 Remarks: Ransom's material was described from an Alaskan fox housed at the National Zoological Park, Washington, D.C.
- Phagicola nana* (Ransom, 1920)  
 Syn.: *Ascocotyle nana* Ransom, 1920  
 Site: small intestine  
 Host: *Alopex lagopus* (1)  
*Ondatra zibethicus rivalicicus* (2)  
 Dist.: DC, LA  
 Records: 1. Ransom 1920 (DC); 2. Byrd and Reiber 1942b (LA)  
 Remarks: Ransom's (1920) material was from an Alaskan fox housed at the National Zoological Park, Washington, D.C.
- Phocitrema fusiforme* Goto and Ozaki, 1930  
 Site: small intestine  
 Hosts: *Callorhinus ursinus* (3)  
*Enhydra lutris* (1,2)  
*Phoca vitulina largha* (4)  
 Dist.: AK  
 Records: 1. Rausch and Locker 1951; 2. Rausch 1953; 3. Neiland 1961; 4. Shults 1982
- Pholeter gastrophilus* (Kossack, 1910)

- Syn.: *Distomum gastrophilum* Kossack, 1910  
 Site: stomach  
 Hosts: *Steno bredanensis* (3)  
*Tursiops gillii* (2)  
*T. nesarnack* (1,2)  
 Dist.: FL  
 Records: 1. Woodard et al. 1969 (FL); 2. Migaki et al. 1971 (unspecified); 3. Forrester and Robertson 1975 (FL)
- Pricitrema eumetopii* Shults, 1978  
 Site: small intestine  
 Host: *Eumetopias jubatus*  
 Dist.: AK  
 Records: Shults 1978
- Pricitrema phocae* Shults, 1978  
 Site: intestine  
 Host: *Phoca vitulina richardsii*  
 Dist.: AK  
 Records: Shults 1978
- Pricitrema zalophi* (Price, 1932)  
 Syn.: *Apophallus zalophi* Price, 1932  
 Site: small intestine  
 Host: *Callorhinus ursinus* (3)  
*Enhydra lutris* (1,2)  
*Eumetopias jubatus* (4)  
*Mirounga angustirostris* (4)  
*Phoca vitulina* (4)  
*Zalophus californianus* (4)  
 Dist.: AK, OR  
 Records: 1. Rausch and Locker 1951 (AK); 2. Rausch 1953 (AK); 3. Neiland 1961 (AK); 4. Stroud and Dailey 1978 (OR)
- Pricitrema* spp.  
 Site: small intestine  
 Host: *Erignathus barbatus*  
 Dist.: AK  
 Record: Bishop 1979
- FAMILY OPISTHORCHIIDAE Looss, 1899
- Amphimerus neotropicalis* Caballero, Gei, and Caballero, 1963  
 Site: pancreatic duct  
 Host: *Metachirops opossum fuscogriseus*  
 Dist.: Costa Rica  
 Record: Caballero, Gei and Caballero 1963
- Amphimerus pseudofelineus* (Ward, 1901) Barker, 1911  
 Site: bile duct, gall bladder  
 Host: *Didelphis virginiana* (1)
- Ondatra zibethicus zibethicus* (2)  
 Dist.: IL  
 Record: 1. Leigh 1940; 2. Gilford 1954
- Metorchis conjunctus* (Cobbald, 1860) Looss, 1899  
 Site: bile ducts, gall bladder, pancreas  
 Hosts: *Canis latrans* (3)  
*Canis lupus* (3,8)  
*Martes pennanti* (5)  
*Ondatra zibethicus* (2)  
*Procyon lotor* (6)  
*Sigmodon hispidus* (7)  
*Vulpes vulpes* (4)  
 Dist.: Alta, Man, NB, NS, Ont, PA, Que, Sask, VA  
 Records: 1. Sweatman 1952 (Ont); 2. Anderson and Beaudoin 1966 (PA); 3. Holmes and Podesta 1968 (Alta); 4. Smith 1978 (NB,NS); 5. Dick and Leonard 1979 (Man); 6. Schaffer et al. 1981 (VA); 7. Watson 1981 exp. (Que); 8. Wobeser et al. 1983 (Sask)
- Opisthorchis pricei* Foster, 1939  
 Site: bile ducts  
 Host: *Caluromys derbianus pallidus*  
 Dist.: Panama  
 Record: Foster 1939
- Opisthorchis tenuicollis* (Rud. 1819)  
 Site: bile duct  
 Host: *Lynx canadensis*  
 Dist.: Pa  
 Record: Canavan 1934  
 Remarks: The specimens came from an animal from the Pennsylvania Zoo.
- Opisthorchis tonkae* Wallace and Penner, 1939  
 Site: bile duct, gall bladder, pancreas, small intestine  
 Hosts: *Ondatra zibethicus* (1,3)  
*O. z. zibethicus* (2)  
 Dist.: MN, NB, NY  
 Records: 1. Wallace and Penner 1939 (MN); 2. Edwards 1949 (NY); 3. MacKinnon and Burt 1978 (NB)
- Parametorchis canadensis* Price, 1929  
 Site: gallbladder  
 Host: *Mustela vison*  
 Dist.: Ont  
 Records: Price 1929; Anonymous 1930, 1931; Law and Kennedy 1932
- Parametorchis complexus* (Stiles and Hassall, 1894)  
 Site: liver

Host: *Procyon lotor*  
Dist.: NC, VA  
Records: Harkema and Miller 1964 (NC);  
Schaffer et al. 1981 (NC,VA)

*Parametorchis* spp.

Site: liver  
Host: *Ondatra zibethicus*  
Dist.: MD  
Record: Smith 1938

## ORDER PARAMPHISTOMIFORMES

### Szidat, 1936

#### FAMILY NOTOCOTYLIDAE Luhe, 1909

*Catatropis fimbriata* Barker, 1915

Site: duodenum  
Host: *Ondatra zibethicus*  
Dist.: NE  
Record: Barker 1915

*Catatropis johnstoni* Martin, 1956

Site: cecum and large intestine  
Host: *Oryzomys palustris*  
Dist.: FL  
Record: Bush and Kinsella 1972

*Notocotylus filamentis* (Barker, 1915) Harwood, 1939

Syn.: *Catatropis filamentis* Barker, 1915  
Site: large intestine  
Hosts: *Ondatra zibethicus* (1,2,3,4,6,7,8,9)  
*O. z. zibethicus* (5)  
Dist.: AK, IL, ME, Man, MI, Ont  
Records: 1. Law and Kennedy 1932 (Ont); 2. Harwood 1939 (MI); 3. Leigh 1940 (IL); 4. Ameal 1942 (MI); 5. Meyer and Reilly 1950 (ME); 6. Sweatman 1952 (Ont); 7. Dunagan 1957a (AK), 8. 1957b (AK); 9. McKenzie and Welch 1979 (Man)

*Notocotylus hassalli* McIntosh and McIntosh, 1934

Site: cecum, small intestine  
Hosts: *Microtus pennsylvanicus pennsylvanicus* (1,2)  
*Zapus hudsonius hudsonius* (3)  
Dist.: MD, MI, VA  
Records: 1. Stiles and Hassall 1894a (MD); 2. McIntosh and McIntosh 1934 (MD,VA); 3. Erickson 1938 (MI)  
Remarks: Stiles and Hassall recorded their trematode as *Monostoma* sp.. McIntosh and McIntosh reexamined the *Monostoma* sp. and believed it to be *N. hassalli*.

*Notocotylus urbanensis* (Cort, 1914) Harrah, 1922

Site: large intestine  
Hosts: *Ondatra zibethicus* (3,4,7,8)  
*O. z. occipitalis* (1)  
*O. z. osoyoosensis* (6)  
*O. z. zibethicus* (2,5)

Dist.: BC, MI, NB, NY, OH, Ont, OR, PA, UT  
Records: 1. Rider and Macy 1947 (OR); 2. Edwards 1949 (NY); 3. Knight 1951 (BC); 4. Herber 1955 (MI,PA); 5. Beckett and Gallicchio 1967 (OH); 6. Grundmann and Tsai 1967 (UT); 7. Beverley-Burton and Sweeny 1972 (Ont); 8. MacKinnon and Burt 1978 (NB)

*Notocotylus* spp.

Site: intestine  
Hosts: *Ondatra zibethicus* (2)  
*O. z. zibethicus* (1)  
Dist.: IL, OR  
Records: 1. Gilford 1954 (IL); 2. Senger and Neiland 1955 (OR)

*Nudacotyle novicia* Barker, 1916

Site: bile duct, stomach, small intestine, large intestine  
Hosts: *Microtus pennsylvanicus pennsylvanicus* (6)  
*Ondatra zibethicus* (1,2,3,4,6,13)  
*O. z. macrodon* (10)  
*O. z. rivalicicus* (5)  
*O. z. zibethicus* (7,8,9)  
*Sciurus carolinensis* (12)  
*Sylvilagus palustris* (11)  
Dist.: AL, IA, IL, LA, MD, ME, MI, MN, NB, NC, OH, Ont, TX  
Records: 1. Barker 1916 (MN); 2. Law and Kennedy 1932 (Ont); 3. Chandler 1941 (TX); 4. Ameal 1942 (MI); 5. Penn 1942 (LA); 6. Ameal 1944 (IA,MI); 7. Meyer and Reilly 1950 (ME); 8. Gilford 1954 (IL); 9. Beckett and Gallicchio 1967 (OH); 10. Abram 1969 (MD); 11. Stringer et al. 1969 (NC); 12. Davidson 1976 (AL); 13. MacKinnon and Burt 1978 (NB)

*Nudacotyle* spp.

Site: small intestine  
Host: *Sciurus carolinensis carolinensis*  
Dist.: TN  
Record: Olexik et al. 1969

*Ogmogaster antarctica* Johnston, 1931

Syn.: *Ogmogaster plicatus* of Margolis and Pike (1955), in part  
Site: rectum, large intestine  
Hosts: *Balaenoptera borealis* (1)

- B. physalus* (2)  
*Eschrichtius gibbosus* (3)  
 Dist.: CA, BC  
 Records: 1. Rausch and Fay 1966 (BC); 2. Rausch and Rice 1970 (CA); 3. Rice and Wolman 1971 (CA)
- Ogmogaster pentalineatus* Rausch and Fay, 1966  
 Site: small intestine, rectum  
 Host: *Eschrichtius gibbosus*  
 Dist.: AL, CA  
 Records: Rausch and Fay 1966 (AL,CA); Rice and Wolman 1971 (CA)
- Ogmogaster plicatus* (Creplin, 1829) Jagerskiold, 1891  
 Site: rectum, small intestine  
 Hosts: *Balaenoptera borealis* (1)  
*B. physalus* (1,2,3,4)  
*Balaenoptera* sp. (3)  
 Dist.: CA, BC  
 Records: 1. Margolis and Pike 1955 (BC); 2. Rausch and Fay 1966 (BC); 3. Rausch and Rice 1970 (CA); 4. Rice and Wolman 1971 (CA); 5. Gibson and Harris 1979 (BC)
- Ogmogaster trilineatus* Rausch and Rice, 1970  
 Site: rectum  
 Host: *Balaenoptera physalus*  
 Dist.: CA  
 Record: Rausch and Rice 1970
- Paramonostomum pseudalveatum* Price, 1931  
 Site: small intestine, large intestine  
 Hosts: *Ondatra zibethicus* (1)  
*O. z. osoyoosensis* (3)  
*O. z. rivalicicus* (2)  
 Dist.: LA, MD, UT  
 Records: 1. Price 1931b (MD); 2. Penn 1942 (LA); 3. Grundmann and Tsai 1967 (UT)
- Quinqueserialis floridensis* Rausch, 1952  
 Site: cecum  
 Host: *Neofiber alleni nigrescens*  
 Dist.: FL  
 Record: Rausch 1952a
- Quinqueserialis hassalli* (McIntosh and McIntosh, 1934) Harwood, 1939  
 Site: cecum  
 Hosts: *Marmota monax* (2)  
*Microtus montanus fusus* (5)  
*M. m. nanus* (4,5)  
*M. pennsylvanicus modestus* (4,5)  
*Thomomys talpoides* (5)  
 Dist.: CO, MD, MN, NM, VA, WI, WY
- Records: 1. Harwood 1939 (MD,MN,VA); 2. Rausch and Tiner 1948 (WI); 3. 1949 (WI); 4. Kuns and Rausch 1950 (WY); 5. Smith 1954 (CO,NM,WY)
- Quinqueserialis quinqueserialis* (Barker and Laughlin, 1911) Harwood, 1939  
 Syn.: *Notocotyle quinqueserialis* Barker and Laughlin, 1911  
 Site: small intestine, large intestine, cecum  
 Hosts: *Microtus oeconomus macfarlani* (14)  
*M. pennsylvanicus* (17)  
*M. p. drummondii* (14)  
*Ondatra zibethicus* (1,2,3,4,5,6,7,11, 12,14,15,18,19,20,22, 23,27,28,29,30,31,33,34)  
*O. z. obscurus* (35)  
*O. z. osoyoosensis* (13,21,25)  
*O. z. zibethicus* (8,9,10,16,24,26,32)  
*Zapus hudsonius* (17)  
 Dist.: AK, BC, CO, IA, IL, Lab, Man, MD, ME, MI, MT, NB, NE, Nfld, NY, OH, Ont, OR, PA, Que, UT, WI  
 Records: 1. Barker and Laughlin 1911 (NE); 2. Barker 1915 (NE); 3. Law and Kennedy 1932 (Ont); 4. Harwood 1939 (IA,MD,MT); 5. Ameel 1942 (MI); 6. Herber 1942 (MI,PA); 7. Rausch 1946b (OH); 8. Edwards 1949 (NY); 9. Rausch and Tiner 1949 (WI); 10. Meyer and Reilly 1950 (ME); 11. Dubois 1951 (MD); 12. Knight 1951 (BC); 13. Ball 1952 (CO); 14. Rausch 1952b (AK); 15. Sweatman 1952 (Ont); 16. Gilford 1954 (IL); 17. Schad 1954 (Nfld,Que); 18. Senger and Neiland 1955 (OR); 19. Dunagan 1957a (AK), 20. 1957b (AK); 21. Senger and Bates 1957 (UT); 22. Arata 1959 (IL); 23. Anderson and Beaudoin 1966 (PA); 24. Beckett and Gallicchio 1967 (OH); 25. Grundmann and Tsai 1967 (UT); 26. Abram 1969 (MD); 27. Kinsella 1971 (MT); 28. Beverley-Burton and Sweeny 1972 (Ont); 29. Rice and Heck 1975 (OH); 30. Wittrock 1976 (IA); 31. Dyer and Klimstra 1977 (IL); 32. Jilek 1977 (IL); 33. MacKinnon and Burt 1978 (NB); 34. McKenzie and Welch 1979 (Man); 35. Rigby and Threlfall 1981 (Nfld)
- Quinqueserialis zibethicai* Gupta 1962  
 Site: duodenum  
 Host: *Ondatra zibethicus*  
 Dist.: Que  
 Record: Gupta 1962a (Que)
- Quinqueserialis* spp.  
 Site: intestine  
 Host: *Marmota monax*

Dist.: WI  
Record: Rausch and Tiner 1949

Notocotylidae of Undetermined Species

*Monostomum affinis* Leidy, 1858

Site: gall bladder and bile duct  
Host: *Ondatra zibethicus*  
Dist.: PA  
Record: Leidy 1858

FAMILY PARAMPHISTOMIDAE  
Fischoeder, 1901

*Calicophoron microbothrioides* (Price and  
McIntosh, 1944) Eduardo, 1983

Syn.: *Paramphistomum microbothrioides*  
Price and McIntosh, 1944  
Site: rumen  
Host: *Bos taurus*  
Dist.: GA  
Record: Prestwood et al. 1975

*Chiorchis fabaceus* (Diesing, 1838)

Syn.: *Amphistoma fabaceum* Diesing, 1838  
Site: nasal passages, intestine, colon  
Host: *Trichechus manatus*  
Dist.: FL, PA  
Record: Leidy 1890 (PA); Stiles and Hassall  
1894a (FL); Canavan 1934 (PA)  
Remarks: Liedy (1890) collected specimens  
from a seacow that died in the Zoological  
Gardens in 1875. Canavan (1934) obtained  
specimens from a manatee that died at the  
Pennsylvania Zoo.

*Paramphistomum cervi* (Zeder, 1790) Fischoeder,  
1901

Site: rumen  
Hosts: *Alces alces* (1,2,4,5,7,9,10)  
*A. a. americana* (3,8)  
*Odocoileus virginianus* (6,8)  
Dist.: AL, MN, Nfld, Ont, Que, Sask  
Records: 1. Fenstermacher and Jellison 1933  
(MN); 2. Fenstermacher 1934 (MN); 3.  
Wallace 1934 (MN); 4. Fenstermacher 1937  
(MN); 5. Peterson 1955 (Ont,Que); 6. Harlow  
and Jones 1965 (AL); 7. Threlfall 1967  
(Nfld); 8. Dunn 1968 (unspecified); 9.  
Lankester et al. 1979 (Ont); 10. Kennedy et  
al. 1985 (Ont,Sask)

*Paramphistomum liorchis* Fischoeder, 1901

Site: rumen, small intestine  
Hosts: *Alces alces* (5)

*Cervus unicolor* (6)  
*Odocoileus virginianus* (1,2,6)  
*Odocoileus* spp. (3,4)

Dist.: AL, FL, GA, LA, Ont, SC  
Records: 1. Dunn 1968 (unspecified); 2.  
Prestwood et al. 1970 (AL,FL,GA,LA,SC); 3.  
Prestwood et al. 1975 (GA); 4. Walker and  
Becklund 1970 (AL); 5. Kennedy et al. 1985  
(Ont); 6. Davidson et al. 1987 (FL)

*Paramphistomum* spp.

Site: rumen  
Host: *Alces alces*  
Dist.: Alta, MN  
Record: Loken et al. 1965 (MN); Samuel et  
al. 1976 (Alta)

*Stichorchis subtriquetrus* (Rudolphi, 1814)  
Fischoeder, 1901

Syn.: *Amphistomum subtriquetrum*  
Rudolphi, 1819  
*Paramphistomum castori* Kofoid and  
Park, 1937

Site: intestine, cecum  
Hosts: *Castor canadensis*  
(2,3,6,8,9,10,11,12,13,14,15,16)  
*C. c. carolinensis* (4)  
*C. c. leucodontus* (5)  
*C. c. mexicanus* (7)  
*Ondatra zibethicus* (1)  
Dist.: AK, Alta, BC, CO, LA, MEXICO, MN,  
Nfld, NS, Ont, OR, PA, Que, TX  
Records: 1. Leidy 1888 (PA); 2. Duff 1914  
(Ont,Que); 3. Law and Kennedy 1932 (Ont);  
4. Bennett and Humes 1939 (LA); 5. Cowan  
1942 (BC); 6. Erickson 1944 (MN); 7.  
Caballero 1947 (Mexico); 8. Shaw 1947 (OR);  
9. Olsen 1949a (CO); 10. Babero 1953 (AK);  
11. Senger and Neiland 1955 (OR); 12.  
Choquette and Pimlott 1956 (Nfld); 13.  
Dunagan 1957a (AK); 14. Smith and  
Archibald 1967 (NS); 15. Fedynich et al.  
1986 (TX); 16. Bush and Samuel 1981 (Alta)

*Wardius zibethicus* Barker and East, 1915

Syn.: *Pseudodiscus zibethicus* (Barker and  
East, 1915) Fukui, 1929  
Site: cecum  
Hosts: *Ondatra zibethicus*  
(1,2,3,4,8,9,10,13,14,15)  
*O. z. zibethicus* (4,5,6,7,11,12)  
Dist.: IL, Man, MD, ME, MI, NB, NE, NY,  
OH, Ont, PA

Records: 1. Barker 1915 (NE); 2. Law and  
Kennedy 1932 (Ont); 3. Ameel 1942 (MI); 4.  
Rausch 1946b (OH); 5. Edwards 1949 (NY);  
6. Meyer and Reilly 1950 (ME); 7. Gilford

1954 (IL); 8. Smith 1958 (MI); 9. Murrell 1965 (MI); 10. Anderson and Beaudoin 1966 (PA); 11. Beckett and Gallicchio 1967 (OH); 12. Abram 1969 (MD); 13. Rice and Heck 1975 (OH); 14. MacKinnon and Burt 1978 (NB); 15. McKenzie and Welch 1979 (Man)

*Zygocotyle lunata* (Diesing, 1836)

Site: cecum

Hosts: *Alces alces* (2,3)

*Odocoileus virginianus* (1)

Dist.: Alta, MI

Record: 1. Swanson 1960 (MI); 2. Samuel et al. 1976 (Alta); 3. Stock and Barrett 1983 (Alta)

UNIDENTIFIED PARAMPHISTOMIDAE

Paramphistomidae gen. spp.

Site: rumen

Hosts: *Odocoileus virginianus* (1)

*Ondatra zibethicus obscurus* (2)

Dist.: FL, Nfld

Record: 1. Dinaburg 1939 (FL); 2. Rigby and Threlfall 1981 (Nfld)

ORDER PLAGIORCHIIFORMES

LaRue, 1957

FAMILY ALLASSOGONOPORIDAE Odening, 1964

*Allassogonoporus marginalis* Olivier, 1938

Site: small intestine

Hosts: *Eptesicus fuscus* (8)

*Myotis grisescens* (3,4)

*M. lucifugus* (5,7)

*M. sodalis* (2)

*M. velifer incautus* (3)

*Ondatra zibethicus* (1)

*Tadarida brasiliensis cynocephala* (6)

Dist.: IA, KS, KY, LA, MI, WI

Records: 1. Olivier 1938 (MI); 2. Williams 1962 (KY); 3. Ubelaker 1966 (KS); 4. Nickel and Hansen 1967 (KS); 5. Blankespoor and Ulmer 1970 (IA); 6. Martin 1976 (LA); 7. Coggins et al. 1982 (WI); 8. Lotz and Font 1983 (WI)

*Allassogonoporus vespertilionis* Macy, 1940

Site: intestine

Hosts: *Eptesicus fuscus* (3)

*Myotis californicus caurinus* (1,2)

*M. lucifugus* (3)

Dist.: OR

Records: 1. Macy 1940c, 2. 1947; 3. Knight and Pratt 1955

*Cephalophallus obscurus* Macy and Moore, 1954

Site: intestine

Host: *Mustela vison*

Dist.: MI, OR

Record: 1. Macy and Moore 1954 (OR); 2. Lang and Dronen 1972 (MI)

*Myotitrema asymmetrica* Macy, 1940

Site: intestine

Host: *Myotis lucifugus*

Dist.: MN

Record: Macy 1940a

FAMILY ANENTEROTREMATIDAE

*Anenterotrema freitasi* Caballero, 1964

Site: intestine

Host: *Miconycteris hirsuta*

Dist.: Costa Rica

Record: Caballero 1964b

FAMILY DICROCOELIIDAE Looss, 1899

*Brachylecithum* spp.

Site: bile ducts

Host: *Blarina brevicauda*

Dist.: NC

Record: Miller et al. 1974

*Conspicuum icteridorum* Denton and Byrd, 1951

Syn.: *Quiscalus* spp. Denton and Byrd, 1951

Site: bile ducts

Hosts: *Tadarida brasiliensis cynocephala*

*T. b. mexicana*

Dist.: LA, TX

Record: Martin 1976

*Dicrocoelium dendriticum* (Rudolphi, 1819) Looss, 1899

Site: bile duct, liver

Hosts: *Lepus americanus struthopus* (4)

*Marmota monax rufescens* (2)

*Mustela* spp. (1)

*Odocoileus virginianus* (3)

Dist.: Nfld, NY, PEI

Records: 1. Conklin and Baker 1930 (PEI); 2. Mapes 1950 (NY); 3. Mapes and Baker 1950 (NY); 4. Dodds and Mackiewicz 1961 (Nfld); 5. Dunn 1968 (unspecified)

*Dicrocoelium lasiuri* McIntosh, 1933

Site: bile ducts, gall bladder



Host: *Nycteris borealis*  
Dist.: DC  
Records: 1. McIntosh 1933; 2. McIntosh and McIntosh 1935

*Dicrocoelium rileyi* Macy, 1932

Site: bile ducts, gall bladder  
Hosts: *Eptesicus fuscus* (7)  
*Myotis velifer incautus* (6)  
*Nycticeius humeralis* (2)  
*Tadarida brasiliensis* (4)  
*T. b. cynocephala* (1,3,8)  
*T. b. mexicana* (5,6,8)  
Dist.: IA, KS, LA, NM, OK, TX  
Records: 1. Macy 1932 (KS,OK); 2. Chandler 1938 (TX); 3. Byrd and Macy 1942 (LA); 4. Jameson 1959 (TX); 5. Cain 1966 (NM); 6. Nickel and Hansen 1967 (KS,OK); 7. Blankespoor and Ulmer 1970 (IA); 8. Martin 1976 (LA,TX)

*Dictyonograptus chamelensis* Lamothe-Argumedo, 1980

Site: bile ducts  
Host: *Peromyscus banderanus banderanus*  
Dist.: Mexico  
Record: Lamothe-Argumedo 1980

*Eurytrema allantoshi* (Foster, 1939)

Syn.: *Platynosomum allantoshi* Foster, 1939  
Site: bile ducts, gall bladder  
Host: *Caluromys derbianus pallidus* (1)  
*Didelphis virginiana* (2)  
Dist.: Panama, TX  
Record: 1. Foster 1939 (Panama); 2. Denton 1944a (TX)

*Eurytrema komareki* McIntosh, 1939

Site: stomach  
Host: *Peromyscus gossypinus gossypinus*  
Dist.: GA  
Record: McIntosh 1939

*Eurytrema procyonis* Denton, 1942

Syn.: *Eurytrema vulpis* Stunkard, 1947  
Site: pancreatic ducts, small intestine  
Hosts: *Canis latrans x Canis rufus* (12)  
*Procyon lotor* (2,3,4,5,6,7,8,9,11,12,13)  
*P. l. lotor* (1)  
*Urocyon cinereoargenteus* (6,10)  
*Vulpes vulpes* (4)  
Fox (14)  
Dist.: CT, GA, LA, MD, NC, NY, TN, TX, VA  
Records: 1. Chandler 1942a (TX); 2. Denton 1942 (TX); 3. 1944b (TX); 4. Stunkard 1947 (NY); 5. Penner et al. 1954 (CT); 6. Herman et al. 1957 (MD); 7. Babero and Shepperson

1958 (GA); 8. Sawyer 1958 (GA); 9. Harkema and Miller 1964 (NC,VA); 10. Miller and Harkema 1968 (NC); 11. Bafundo et al. 1980 (TN); 12. Custer and Pence 1981 (TX); 13. Schaffer et al. 1981 (VA); 14. Foley et al. 1987 (NY)

*Lyperosomum intermedium* Denton and Kinsella, 1972

Site: pancreas  
Host: *Oryzomys palustris*  
Dist.: FL, GA  
Record: Denton and Kinsella 1972

*Lyperosomum sinuosum* Travassos, 1917

Site: pancreatic ducts, small intestine  
Hosts: *Procyon lotor* (2,3)  
*P. l. solutus* (1)  
Dist.: SC, TE  
Records: 1. Harkema and Miller 1962 (SC), 2. 1964 (SC); 3. Bafundo et al. 1980 (TE)

*Platynosomum beltrani* Caballero and Caballero, 1969

Site: intestine  
Host: *Tadarida brasiliensis mexicana*  
Dist.: Mexico  
Record: Caballero and Caballero 1969b

*Robertdigenea dollfusi* Caballero and Caballero, 1969

Site: bile ducts and gall bladder  
Host: *Procyon lotor crassidens*  
Dist.: Costa Rica  
Record: Caballero and Caballero 1969a

*Zonorchis komareki* (McIntosh, 1939) Travassos, 1944

Site: bile ducts  
Hosts: *Oryzomys palustris* (1)  
*Reithrodontomys humulis* (2)  
Dist.: GA, LA  
Records: 1. Lumsden and Zischke 1961 (LA); 2. McKeever 1971 (GA)

FAMILY LECITHODENDRIIDAE  
Odhner, 1910

*Acanthatrium alicatai* Macy, 1940

Site: intestine  
Host: *Eptesicus fuscus*  
Dist.: DC  
Record: Macy 1940b

*Acanthatrium amphidymum* Cheng, 1957

Site: small intestine

- Host: *Eptesicus fuscus fuscus*  
 Dist.: VA  
 Record: Cheng 1957, 1959
- Acanthatrium beuschleini* Cheng, 1959  
 Site: small intestine  
 Hosts: *Eptesicus fuscus fuscus*  
*Myotis lucifugus*  
 Dist.: VA  
 Record: Cheng 1959
- Acanthatrium eptesici* Alicata, 1932  
 Site: small intestine  
 Hosts: *Eptesicus fuscus* (1,2,5,6)  
*E. f. fuscus* (3)  
*Nycteris borealis* (4)  
 Dist.: BC, DC, IA, MN, VA, WI  
 Records: 1. Alicata 1932 (DC); 2. Macy 1940b (MN); 3. Cheng 1959 (VA); 4. Blankespoor and Ulmer 1970 (IA); 5. Webster and Casey 1973 (BC); 6. Lotz and Font 1983 (WI)
- Acanthatrium microcanthum* Macy, 1940  
 Site: small intestine  
 Host: *Eptesicus fuscus*  
 Dist.: MN, WI  
 Records: Macy 1940b (MN); Lotz and Font 1983 (WI)
- Acanthatrium nycteridis* Faust, 1919  
 Site: small intestine  
 Hosts: *Eptesicus fuscus fuscus* (3)  
*Lasionycteris noctivagans* (4)  
*Myotis lucifugus lucifugus* (2)  
*Nycteris borealis borealis* (1)  
*Tadarida brasiliensis mexicana* (5)  
 Dist.: BC, IL, MA, TX, VA  
 Records: 1. Faust 1919 (IL); 2. Rankin 1946 (MA); 3. Cheng 1959 (VA); 4. Webster and Casey 1973 (BC); 5. Martin 1976 (TX)
- Acanthatrium oligacanthum* Cheng, 1957  
 Site: small intestine  
 Hosts: *Eptesicus fuscus* (2)  
*E. f. fuscus* (1)  
 Dist.: VA, WI  
 Records: 1. Cheng 1957 (VA); 2. Lotz and Font 1983 (WI)
- Acanthatrium oregonense* Macy, 1939  
 Site: intestine  
 Hosts: *Myotis californicus caurinus* (1,2)  
*M. evotis evotis* (1,2)  
*M. lucifugus* (3)  
 Dist.: OR
- Records: 1. Macy 1939, 2. 1947; 3. Knight and Pratt 1955
- Acanthatrium pipistrelli* Macy, 1940  
 Syn.: *Acanthatrium lunatum* Williams, 1960  
 Site: small intestine  
 Hosts: *Eptesicus fuscus* (3,4)  
*E. f. fuscus* (2)  
*Myotis sodalis* (2)  
*Nycteris borealis* (3)  
*Pipistrellus subflavus* (1)  
 Dist.: IA, KY, MN, OH, WI  
 Records: 1. Macy 1940b (MN); 2. Williams 1962 (KY); 3. Blankespoor and Ulmer 1970 (IA); 4. Lotz and Font 1983 (MN, WI)
- Acanthatrium umbraculatum* Christian, 1972  
 Site: small intestine  
 Host: *Myotis lucifugus*  
 Dist.: OH  
 Record: Christian 1972
- Acanthatrium* spp.  
 Site: intestine  
 Host: *Myotis grisescens*  
 Dist.: KS  
 Record: Nickel and Hansen 1967
- Castroia silvai* Travassos, 1928  
 Site: intestine  
 Host: *Micronycteris hirsuta*  
 Dist.: Costa Rica  
 Record: Caballero and Gei 1963
- Glyptoporus noctophilus* Macy, 1936  
 Site: small intestine  
 Hosts: *Eptesicus fuscus* (2)  
*Myotis lucifugus* (1)  
 Dist.: MN  
 Records: 1. Macy 1936a; 2. Lotz and Font 1983
- Gyrabascus brevigastrus* Macy, 1935  
 Site: small intestine  
 Host: *Myotis lucifugus*  
 Dist.: WI  
 Record: Macy 1935a
- Lecithodendrium anticum* Stafford, 1905  
 Site: intestine  
 Host: *Myotis lucifugus*  
 Dist.: Not specified  
 Record: Stafford 1905
- Lecithodendrium posticum* Stafford, 1905  
 Site: intestine  
 Host: *Myotis lucifugus*

Dist.: Not specified  
Record: Stafford 1905

Records: 1. Macy 1932 (KS,OK); 2. Ubelaker 1966 (KS); 3. Martin 1976 (TX)

*Lecithodendrium* spp.

Site: small intestine  
Hosts: *Eptesicus fuscus fuscus* (1)  
*Nycteris intermedia floridana* (2)  
Dist.: FL, VA  
Records: 1. Cheng 1959 (VA); 2. Loftin 1960 (FL)

*Limatulum costarricensis* (Caballero y Brenes, 1957) Caballero, 1964

Site: intestine  
Host: *Myotis nigricans nigricans*  
Dist.: Panama  
Records: Caballero 1964a

*Limatulum gastroides* Macy, 1935

Site: stomach, intestine  
Hosts: *Myotis californicus caurinus* (3)  
*M. keenii* (7)  
*M. lucifugus* (1,5,8)  
*M. l. lucifugus* (2)  
*M. sodalis* (4)  
*Nycteris cinerea* (6)  
Dist.: BC, IA, KY, MA, MN, OR, WI  
Records: 1. Macy 1935b (MN,WI); 2. Rankin 1946 (MA); 3. Macy 1947 (OR); 4. Williams 1962 (KY); 5. Blankespoor and Ulmer 1970 (IA); 6. Webster and Casey 1973 (BC); 7. Coggins et al. 1981 (WI), 8. 1982 (WI)

*Limatulum istmicus* Caballero 1964

Site: intestine  
Host: *Micronycteris hirsuta*  
Dist.: Costa Rica  
Record: Caballero 1964b

*Limatulum limatulum* (Braun, 1900) Travassos, 1921

Syn.: *Distomum limatulum* Braun, 1900  
Site: intestine  
Host: *Natalus stramineus mexicanus*  
Dist.: Mexico Record: Caballero 1943a

*Limatulum mcdanieli* Brooks and Coggins, 1983

Site: stomach  
Host: *Myotis lucifugus*  
Dist.: WI  
Record: Brooks and Coggins 1983

*Limatulum oklahomensis* Macy, 1932

Site: intestine  
Hosts: *Myotis grisescens* (2)  
*Tadarida brasiliensis cynocephala* (1)  
*T. b. mexicana* (3)  
Dist.: KS, OK, TX

*Limatulum* spp.

Site: stomach  
Host: *Myotis lucifugus*  
Dist.: WI  
Record: Coggins et al. 1982

*Maxbraunium tubiporum* (Braun, 1900) Caballero and Ma, 1942

Syn.: *Distomum tubiporum* Braun, 1900  
Site: intestine  
Hosts: *Nycteris borealis*  
*N. b. borealis*  
*Pteronotus parnellii rubiginosus*  
Dist.: Mexico  
Record: Caballero and Cerecero 1942

*Ochoterenatrema breckenridgei* (Macy, 1936)

Syn.: *Lecithodendrium breckenridge* Macy, 1936  
Site: small intestine  
Host: *Eptesicus fuscus* (2)  
*Pipistrellus* sp. (1)  
Dist.: MN  
Record: 1. Macy 1936c; 2. Lotz and Font 1983

*Ochoterenatrema diminutum* (Chandler, 1938)

Syn.: *Limatulum diminutum* Chandler, 1938  
*Ochoterenatrema caballeri* Freitas, 1957  
*Prosthodendrium diminutum* Chandler, 1938

Site: small intestine  
Host: *Eptesicus fuscus* (4)  
*Myotis nigricans nigricans* (2)  
*Nycticeius humeralis* (1,3)  
Dist.: IA, Panama, TX, WI  
Records: 1. Chandler 1938 (TX); 2. Caballero 1964 (Panama); 3. Ubelaker and Kunz 1971 (IA); 4. Lotz and Font 1983 (WI)

*Ochoterenatrema labda* Caballero, 1943

Site: small intestine  
Hosts: *Myotis nigricans nigricans* (3)  
*Natalus stramineus mexicanus* (1)  
*Tadarida brasiliensis* (1,2)  
*T. b. cynocephala* (5)  
*T. b. mexicana* (4,5)

Dist.: LA, Mexico, NM, Panama, TX  
Records: 1. Caballero 1943a (Mexico); 2. Jameson 1959 (TX); 3. Caballero 1964a (Panama); 4. Cain 1966 (NM); 5. Martin 1976 (LA,TX)

- Ochoterenatrema travassosi* (Macy, 1938)  
 Syn.: *Prosthodendrium travassosi* Macy, 1938  
 Site: small intestine  
 Host: *Eptesicus fuscus*  
 Dist.: MN, WI  
 Records: Macy 1938 (MN); Lotz and Font 1983 (WI)
- Ototrema schildti* Font, 1978  
 Site: intestine  
 Hosts: *Myotis keenii* (2)  
*M. lucifugus* (1,3)  
 Dist.: WI  
 Records: 1. Font 1978; 2. Coggins et al. 1981, 3. 1982
- Paralecithodendrium carlsbadensis* Cain, 1966  
 Site: small intestine  
 Host: *Tadarida brasiliensis mexicana*  
 Dist.: NM  
 Record: Cain 1966
- Paralecithodendrium chilostomum* (Mehlis, 1831)  
 Syn.: *Prosthodendrium oligolecithum* Manter and Dubois, 1945  
 Site: small intestine  
 Host: *Eptesicus fuscus* (2)  
*Myotis californicus* (1)  
 Dist.: NE, WI  
 Records: 1. Manter and Debus 1945 (NE); 2. Lotz and Font 1983 (WI)
- Paralecithodendrium emollidum* (Caballero, 1943)  
 Syn.: *Prosthodendrium emollidum* Caballero, 1943  
 Site: intestine  
 Host: *Natalus stramineus mexicanus*  
 Dist.: Mexico  
 Record: Caballero 1943a
- Paralecithodendrium macnabi* (Macy, 1936)  
 Syn.: *Prosthodendrium duboisi* Neiland, 1962  
*Prosthodendrium macnabi* Macy, 1936  
*Prosthodendrium mizellei* Seamster and Stevens, 1948  
 Site: small intestine  
 Host: *Eptesicus fuscus* (1,2,3,5,6)  
*Lasionycteris noctivagans* (6)  
*Myotis lucifugus* (5,7)  
*Nycteris cinerea* (4)  
 Dist.: AK, BC, IN, Mexico, MN, WI  
 Records: 1. Macy 1936a (MN), 2. 1936b (MN); 3. Seamster and Stevens 1948 (IN); 4. Caballero and Zerecero 1951 (Mexico); 5. Neiland 1962 (AK); 6. Webster and Casey 1973 (BC); 7. Lotz and Font 1983 (MN, WI)
- Paralecithodendrium naviculum* (Macy, 1936) Lotz and Font 1983  
 Syn.: *Limatulium scabrum* Caballero, 1940  
*Prosthodendrium naviculum* Macy, 1936  
*Prosthodendrium paeminosum* Caballero, 1943  
*Prosthodendrium scabrum* (Caballero, 1940) Caballero, 1943  
*Prosthodendrium tetralobulatum* Caballero, 1943  
 Site: small intestine  
 Host: *Balantiopteryx plicata* (5)  
*Eptesicus fuscus* (1,2,12)  
*Mustela vison* (10)  
*Myotis sodalis* (8)  
*M. volans longicrus* (11)  
*Nycteris cinerea* (6)  
*N. intermedia floridana* (4)  
*Procyon lotor* (9)  
*P. l. lotor* (7)  
*Tadarida brasiliensis* (3)  
 Dist.: BC, GA, KY, Mexico, MI, MN, MS, OH, WI  
 Records: 1. Macy 1936a (MN), 2. 1936b (MN); 3. Caballero 1940 (Mexico); 4. Byrd and Macy 1942 (MS); 5. Caballero 1943b (Mexico); 6. Caballero and Zerecero 1951 (Mexico); 7. Williams 1961 (OH); 8. Williams 1962 (KY); 9. Harkema and Miller 1964 (GA); 10. Lang and Dronen 1972 (MI); 11. Webster and Casey 1973 (BC); 12. Lotz and Font 1983 (MN, WI)
- Paralecithodendrium nokomis* (Macy, 1937)  
 Syn.: *Prosthodendrium nokomis*, Macy, 1937  
 Site: small intestine  
 Host: *Eptesicus fuscus* (2)  
*Nycteris borealis* (1)  
 Dist.: IA, WI  
 Records: 1. Blankespoor and Ulmer 1970 (IA); 2. Lotz and Font 1983 (WI)
- Paralecithodendrium swansonii* (Macy, 1936) Lotz and Font, 1983  
 Syn.: *Prosthodendrium swansonii* Macy, 1936  
 Site: small intestine  
 Host: *Eptesicus fuscus* (5,8)  
*Myotis grisescens* (4)  
*M. lucifugus* (1,2,5,6,7)  
*Nycteris borealis* (5)  
*Tadarida brasiliensis cynocephala* (3)  
 Dist.: BC, IA, KS, LA, MN, WI

Records: 1. Macy 1936a (MN), 2. 1936b (MN);  
3. Byrd and Macy 1942 (LA); 4. Nickel and  
Hansen 1967 (KS); 5. Blankespoor and  
Ulmer 1970 (IA); 6. Webster and Casey 1973  
(BC); 7. Coggins et al. 1982 (WI); 8. Lotz and  
Font 1983 (MN,WI)

*Paralecithodendrium transversum* (Byrd and  
Macy, 1942) Lotz and Font, 1983

Syn.: *Prosthodendrium transversum* Byrd  
and Macy, 1942

*Prosthodendrium volaticum*  
Blankespoor and Ulmer, 1972

Site: small intestine

Host: *Eptesicus fuscus* (4,8)

*Myotis keenii* (5,6)

*M. sodalis* (2)

*Nycteris borealis* (1,3)

*N. b. borealis* (1)

Dist.: IA, KY, MN, TN, WI

Records: 1. Byrd and Macy 1942 (TN); 2.  
Williams 1962 (KY); 3. Kunz 1968 (IA); 4.  
Blankespoor and Ulmer 1972 (IA); 5.  
Blankespoor and Szymusiak 1974 (IA); 6.  
Coggins et al. 1981 (WI), 7. 1982 (WI); 8.  
Lotz and Font 1983 (MN,WI)

*Prosthodendrium alaskensis* Neiland, 1962

Site: intestine

Host: *Myotis lucifugus*

Dist.: AK

Record: Neiland 1962

*Prosthodendrium longiforme* Bhalerao, 1926

Site: intestine

Host: *Eptesicus fuscus fuscus*

Dist.: KS

Record: Nickel and Hansen 1967

*Prosthodendrium silvai* (Travassos, 1928)

Site: intestine

Host: *Nycteris cinerea*

Dist.: BC

Record: Webster and Casey 1973

*Prosthodendrium singularium* Byrd and Macy,  
1942

Site: small intestine

Host: *Nycteris intermedia floridana*

Dist.: MS

Record: Byrd and Macy 1942

*Prosthodendrium* spp.

Site: intestine

Hosts: *Eptesicus fuscus* (1,2)

*Lasionycteris noctivagans* (2)

*Myotis lucifugus* (2)

*Nycteris borealis* (1)

*N. cinerea* (2)

Dist.: BC, IA

Record: 1. Blankespoor and Ulmer 1970 (IA);  
2. Webster and Casey 1973 (BC)

*Tremajoannes buckleyi* Saoud, 1964

Site: small intestine

Hosts: *Tadarida brasiliensis mexicana*

Dist.: NM

Record: Cain 1966 (NM)

## UNIDENTIFIED LECITHODENDRIIDAE

Lecithodendriidae gen. spp.

Site: intestine

Host: *Myotis californicus caurinus*

Dist.: OR

Record: Macy 1947

## FAMILY MICROPHALLIDAE Ward, 1901

*Carneophallus turgidus* Leigh, 1958

Site: small intestine

Hosts: *Procyon lotor* (1,2,4,5)

*P. l. litoreus* (6)

*P. l. solutus* (3)

Dist.: FL, GA, NC, SC, TX

Records: 1. Leigh 1958 (FL); 2. Jordan and  
Hayes 1959 (GA); 3. Harkema and Miller  
1962 (SC), 4. 1964 (NC,SC); 5. Schaffer et al.  
1981 (GA,TX); 6. Price and Harman 1983  
(GA)

*Gynaecotyla adunca* (Linton, 1905)

Site: small intestine

Hosts: *Procyon lotor* (2,3)

*P. l. solutus* (1)

Dist.: GA, NC, SC

Records: 1. Harkema and Miller 1962 (SC), 2.  
1964 (NC,SC); 3. Schaffer et al. 1981 (GA)

*Maritrema prolixum* Caballero and Gei, 1961

Site: intestine

Host: *Metachirops opossum fuscogriseus*

Dist.: Costa Rica

Record: Caballero and Gei 1961

*Maritreminoides nettae* (Gower, 1936) Rankin,  
1939

Site: small intestine

Hosts: *Didelphis virginiana* (2)

*Procyon lotor* (1,3)

Dist.: GA, MN, NC, SC

Records: 1. Harkema and Miller 1964 (GA,NC,SC); 2. Miller and Harkema 1970 (NC); 3. Larson and Scharf 1975 (MN)

*Maritreminoides* spp.

Site: small intestine  
Hosts: *Procyon lotor* (2)  
*P. l. solutus* (1)

Dist.: NC, SC  
Records: 1. Harkema and Miller 1962 (SC), 2. 1964 (NC,SC)

*Microphallus aspalacis* Rausch, 1962

Site: small intestine  
Host: *Neurotrichus gibbsii*  
Dist.: OR  
Record: Rausch 1962

*Microphallus enhydrae* Rausch and Locker, 1951

Site: small intestine  
Host: *Enhydra lutris*  
Dist.: AK  
Record: Rausch and Locker 1951

*Microphallus pirum* (Afanas'ev, 1941)

Site: intestine  
Host: *Enhydra lutris*  
Dist.: AK  
Record: Rausch 1953

*Microphallus* spp.

Site: small intestine  
Hosts: *Procyon lotor* (1)  
*P. l. hirtus* (2)  
Dist.: OH, Sask  
Record: 1. Rausch 1946a (OH); 2. Hoberg and McGee 1982 (Sask)

*Pseudomaritrema beolopolskoi* Caballero 1964

Site: intestine  
Host: *Micronycteris hirsuta*  
Dist.: Costa Rica  
Record: Caballero 1964b

*Pseudospelotrematoides* spp.

Site: small intestine  
Host: *Sus scrofa*  
Dist.: GA  
Record: Babero et al. 1959

FAMILY NANOPHYETIDAE Dollfus, 1939

*Nanophyetus salmincola* (Chapin, 1926) Chapin, 1927

Syn.: *Nanophyes salmincola* Chapin, 1926  
Site: small intestine

Hosts: *Canis latrans* (4)  
*C. l. lestes* (1)  
*Felis concolor* (6)  
*Lutra canadensis* (4)  
*Lynx rufus* (4)  
*L. r. fasciatus* (1)  
*Mustela erminea* (4)  
*M. vison* (2,3,4)  
*Procyon lotor* (4)  
*P. l. pacificus* (1)  
*Rattus norvegicus* (4)  
*Spilogale putorius* (4)  
*Vulpes vulpes* (4)  
*Zalophus californianus* (5)

Dist.: Ont, OR, WA  
Records: 1. Cram 1926 (WA); 2. Anonymous 1930 (Ont); 3. Senger and Neiland 1955 (OR); 4. Schlegel et al. 1968 (OR,WA); 5. Stroud and Dailey 1978 (OR); 6. Kistner et al. 1979 (OR)

FAMILY PARAGONIMIDAE Dollfus, 1939

*Paragonimus kellicotti* (Ward, 1908)

Site: lungs  
Hosts: *Canis latrans* (19,20)  
*Didelphis marsupialis* (8,17)  
*Lynx rufus* (7,8,14,21)  
*Mephitis mephitis* (8,15,16,19,20)  
*Mustel vison* (1,2,3,4,5,9,11,12,19,20)  
*Ondatra zibethicus* (18)  
*Procyon lotor* (8,10)  
*Vulpes vulpes* (6,19,20)  
*Mink* (13)  
Dist.: GA, OH, Ont, KY, MD, MI, MN, NC, WI, WV

Records: 1. Ameel 1931 (MI), 2. 1934 (WI); 3. La Rue and Ameel 1937 (MI,OH); 4. Sealander 1943 (MI); 5. Erickson 1946 (MN), 6. 1950 (MN); 7. Jordan and Byrd 1958 (GA); 8. McKeever 1958 (GA); 9. Gesinski et al. 1964 (OH); 10. Harkema and Miller 1964 (GA,NC); 11. Miller and Harkema 1964 (NC); 12. Beckett and Gallicchio 1966 (OH); 13. Fyvie 1966 (Ont); 14. Miller and Harkema 1968 (NC); 15. Bemrick and Schlotthauer 1971 (MN); 16. Alexander et al. 1972 (MD); 17. Feldman et al. 1972 (NC); 18. Harley 1972 (KY); 19. Presidente and Ramsden 1975 (Ont); 20. Ramsden and Presidente 1975 (Ont); 21. Watson et al. 1981 (GA,WV)

*Paragonimus mexicanus* Miyazaki and Ishii, 1968

Syn.: *Paragonimus ecuadoriensis*  
*Paragonimus inca*

*Paragonimus peruvianus* Miyazaki,  
Ibanez, and Miranda, 1969

Site: lungs

Hosts: *Didelphis marsupialis* (1,2)

*D. virginiana californica* (3,4,5,6)

*Felis pardalis* (2)

*Metachirops opossum fuscogriseus* (2)

*M. o. pallidus* (4,6,7)

*Procyon lotor* (2)

*Urocyon cinereoargenteus* (2)

Dist.: Costa Rica, Mexico

Records: 1. Miyazaki and Ishii 1968

(Mexico); 2. Brenes et al. 1980 (Costa Rica);

3. Miyazaki, Kifune and Lamothe-Argumedo

1980 (Mexico); 4. Lamothe-Argumedo 1981

(Mexico); 5. Lamothe-Argumedo et al. 1981

(Mexico); 6. Lamothe-Argumedo 1984

(Mexico); 7. Lamothe-Argumedo et al. 1985

(Mexico)

Remarks: Brenes et al. (1980) considered *P. peruvianus* a synonym of *P. mexicanus*.

Brenes et al. (1980) redescribed the material

he called and reported in 1968 as

*Paragonimus* sp.. See supplementary

reading for Brenes et al. (1968).

*Paragonimus rudis* (Diesing, 1850) Braun, 1899

Site: lungs

Hosts: *Didelphis marsupialis* (4)

*D. virginiana* (1)

*Felis onca* (3)

*Mephitis macroura macroura* (1)

*Metachirops opossum* (4)

*M. o. fuscogriseus* (2)

*Nasua nasua* (4)

*Procyon lotor* (3)

Dist.: Costa Rica, GA, Guatemala, NC,

Panama

Records: 1. Caballero 1946 (Guatemala); 2.

Caballero and Gei 1961 (Costa Rica); 3.

Harkema and Miller 1964 (GA, NC); 4.

Thatcher 1967 (Panama)

*Paragonimus westermanni* (Kerbert, 1878)

Site: lungs

Host: *Didelphis virginiana*

Dist.: TN

Records: Byrd and Reiber 1942a, 1942b;

Byrd, Reiber, et al. 1942

*Paragonimus* spp.

Site: lungs

Hosts: *Didelphis marsupialis* (5,6)

*Felis onca* (7)

*F. pardalis* (7)

Felidae gen. spp. (7)

*Mustela vison* (2)

*Ondatra zibethicus* (1)

*Procyon lotor lotor* (4)

Mink (3)

Dist.: Belize, Canada, Mexico, MI, Ont

Records: 1. Ameel 1932 (MI); 2. Swales 1933

(Ont); 3. Cameron 1937b (Canada); 4.

Rausch and Tiner 1949 (MI); 5. Mazzotti and

Miyazaki 1965 (Mexico); 6. Miyazaki and

Ishii 1968 (Mexico); 7. Patton et al. 1986

(Belize)

Remarks: Raush and Tiner (1949) considered

*P. l. lotor* to be an accidental host for

*Paragonimus* spp.

#### FAMILY PLAGIORCHIIDAE Ward, 1917

*Neoglyphe locellus* (Kossacks, 1910)

Syn.: *Opisthioglyphe locellus* Kossacks, 1910

Site: intestine

Hosts: *Sorex cinereus*

*S. palustris*

*S. vagrans*

Dist.: CO

Records: Leiby 1961

*Neoglyphe soricis* (Pojmanska, 1957)

Site: intestine

Hosts: *Sorex cinereus*

*S. palustris*

*S. vagrans*

Dist.: MT

Record: Hendricks 1973

*Plagiorchis elegans* (Rudolphi, 1802)

Site: intestine

Hosts: *Alopecurus lagopus* (2)

*Procyon lotor hirtus* (1)

*Vulpes vulpes* (2)

Dist.: AK, GD, Sask

Record: 1. Hoberg and McGee 1982 (Sask); 2.

Rausch et al. 1983 (AK, GD)

*Plagiorchis massino* Petrov and Tikhonov, 1927

Site: small intestine

Host: *Vulpes vulpes alascensis*

Dist.: AK

Record: Babero and Rausch 1952

*Plagiorchis micracanthos* Macy, 1932

Syn.: *Plagiorchis micracanthum* Macy, 1931

Site: intestine

Hosts: *Eptesicus fuscus* (1)

*Myotis californicus* (2)

*M. grisescens* (4)

*M. lucifugus* (1,7)

*M. l. occultus* (6)

*M. sodalis* (3)

*Pipistrellus hesperus* (7)

*P. subflavus subflavus* (5)

Dist.: KS, KY, MN, NE, NM, NV

Records: 1. Macy 1932 (MN); 2. Manter and Debus 1945 (NE); 3. Williams 1962 (KY); 4. Ubelaker 1966 (KS); 5. Nickel and Hansen 1967 (NE); 6. Cain and Studier 1972 (NM), 7. 1974 (NM,NV)

*Plagiorchis muris* (Tanabe, 1922) Yamaguti, 1933

Site: small intestine

Hosts: *Mephitis mephitis* (3)

*Microtus pennsylvanicus* (2)

*Natalus stramineus mexicanus* (1)

*Procyon lotor* (5)

*Sigmodon hispidus* (4)

Dist.: Mexico, ND, Nfld, Que, TX

Records: 1. Caballero 1943a (Mexico); 2. Schad 1954 (Nfld, Que); 3. Dyer 1970 (ND); 4. Rodenberg and Pence 1978 (TX); 5. Schaffer et al. 1981 (TX)

*Plagiorchis noblei* Fedorova, 1969

Site: intestine

Host: *Ondatra zibethicus*

Dist.: Man

Record: McKenzie and Welch 1979

*Plagiorchis proximus* Barker, 1915

Site: duodenum, small intestine

Hosts: *Glaucomys sabrinus* (23)

*Mustela vison* (2,3)

*Ondatra zibethicus*

(1,3,4,5,6,11,13,14,17,18,19,22)

*O. z. obscurus* (2,3)

*O. z. osoyoensis* (12,21)

*O. z. zibethicus* (8,9,10,15,20)

*Spermophilus franklinii* (23)

*S. richardsonii* (7,23)

*Tamiasciurus hudsonicus* (23)

*Zapus hudsonius* (16)

Dist.: AK, BC, CO, IL, MA, Man, ME, MI, NB, NE, Nfld, NY, OH, Ont, PA, Que, Sask, UT, WI

Records: 1. Barker 1915 (NE); 2. Anonymous 1930 (Ont); 3. Law and Kennedy 1932 (Ont); 4. Ameal 1942 (MI); 5. Rankin 1946 (MA); 6. Rausch 1946b (OH); 7. Rausch and Tiner 1948 (Man); 8. Edwards 1949 (NY); 9. Rausch and Tiner 1949 (WI); 10. Meyer and Reilly 1950 (ME); 11. Knight 1951 (BC); 12. Ball 1952 (CO); 13. Rausch 1952b (AK); 14. Sweatman 1952 (Ont); 15. Gilford 1954 (IL); 16. Schad 1954 (Nfld,Que); 17. Dunagan 1957a (AK), 18. 1957b (AK); 19. Anderson and Beaudoin 1966 (PA); 20. Beckett and

Gallicchio 1967 (OH); 21. Grundmann and Tsai 1967 (UT); 22. MacKinnon and Burt 1978 (NB); 23. McGee 1980 (Sask); 24. Rigby and Threlfall 1981 (Nfld)

*Plagiorchis vesperilionis* (Mueller, 1784) Braun, 1900

Site: small intestine

Hosts: *Eptesicus fuscus* (5,6)

*E. f. fuscus* (4)

*Lasionycteris noctivagans* (6)

*Myotis californicus* (6)

*M. keenii* (7,9)

*M. lucifugus* (1,5,6,7,10)

*M. l. lucifugus* (4)

*M. volans longicrus* (6)

*Nycteris cinerea* (5,6)

*Tadarida brasiliensis* (2,3)

*T. b. cynocephala* (8)

*T. b. mexicana* (8)

Dist.: BC, IA, KS, LA, Mexico, NE, TX, WI  
Records: 1. Stafford 1905 (not specified); 2. Caballero 1940 (Mexico), 3. 1943a (Mexico); 4. Nickel and Hansen 1967 (KS,NE); 5. Blankespoor and Ulmer 1970 (IA); 6. Webster and Casey 1973 (BC); 7. Blankespoor and Szymusiak 1974 (IA); 8. Martin 1976 (LA,TX); 9. Coggins et al. 1981 (WI), 10. 1982 (WI)

*Plagiorchis vesperilionis parorchis* Macy, 1960

Site: small intestine

Host: *Myotis lucifugus alascensis*

Dist.: WA

Record: Macy 1960 (WA)

*Plagiorchis* spp.

Site: small intestine

Hosts: *Aello megalophylla* (4)

*Clethrionomys gapperi* (3)

*C. rutilus dawsoni* (2)

*Eptesicus fuscus* (6)

*Lasionycteris noctivagans* (6)

*Myotis lucifugus* (5)

*Nycticeius humeralis* (1)

Dist.: AK, BC, Nfld, Que, TN, TX

Records: 1. Byrd and Macy 1942 (TN); 2. Rausch 1952b (AK); 3. Schad 1954 (Nfld,Que); 4. Jameson 1959 (TX); 5. Neiland 1962 (AK); 6. Webster and Casey 1973 (BC)

FAMILY PROSTHOGONIMIDAE Luhe, 1909

*Mediogonimus ovilacus* Woodhead and Malewitz, 1936



Site: bile ducts, beneath liver capsule  
Hosts: *Microtus pennsylvanicus*  
*pennsylvanicus* (1,2)  
*Ondatra zibethicus zibethicus* (3)  
Dist.: MI, OH  
Records: 1. Woodhead and Malewitz 1936  
(MI); 2. Rausch and Tiner 1949 (MI); 3.  
Beckett and Gallicchio 1967 (OH)

#### FAMILY TELORCHIIDAE Nicoll, 1924

##### *Telorchis* spp.

Site: small intestine  
Host: *Lutra canadensis*  
Dist.: AL  
Record: Fleming et al. 1977

#### FAMILY TROGLOTREMATIDAE Braun, 1915

##### *Sellacotyle vitellosa* Sogandares-Bernal, 1961

Site: small intestine  
Host: *Mustela vison vulgivaga*  
Dist.: LA  
Record: Sogandares-Bernal 1961

##### *Troglorema mustelae* Wallace, 1932

Syn.: *Sellacotyle mustelae* Wallace, 1934  
Site: small intestine  
Hosts: *Mustela vison* (1,2,3,6)  
*Procyon lotor* (4,5)  
*Urocyon cinereoargenteus* (7)  
Dist.: GA, MN, NC, SC, VA  
Records: 1. Wallace 1932 (MN); 2. Wallace  
1935 (MN); 3. Erickson 1946 (MN); 4.  
Sawyer 1958 (GA); 5. Harkema and Miller  
1964 (GA,NC,SC,VA); 6. Miller and  
Harkema 1964 (NC), 7. 1968 (GA)

##### *Xiphidiotrema lockerae* Senger, 1953

Site: small intestine  
Hosts: *Sorex bendirii palmeri*  
*S. palustris navigator*  
*S. vagrans permiliensis*  
Dist.: MT, OR  
Record: Senger 1953

#### FAMILY UROTREMATIDAE Poche, 1926

##### *Urotrema scabridum* (Braun, 1900) Caballero, 1942

Site: small intestine  
Hosts: *Eptesicus nilssoni* (2)  
*Myotis grisescens* (3,4)  
*M. keenii* (7)

*M. lucifugus* (5,8)  
*Natalus stramineus mexicanus* (1)  
*Tadarida brasiliensis* (1)  
*T. b. cynocephala* (6)  
*T. b. mexicana* (6)

Dist.: Costa Rica, IA, KS, LA, Mexico, TX,  
WI

Records: 1. Caballero 1942 (Mexico); 2.  
Caballero et al. 1957 (Costa Rica); 3.  
Ubelaker 1966 (KS); 4. Nickel and Hansen  
1967 (KS); 5. Blankespoor and Ulmer 1970  
(IA); 6. Martin 1976 (LA,TX); 7. Coggins et  
al. 1981 (WI), 8. 1982 (WI)

Remarks: *Eptesicus propinguus* Peters, 1872  
is regarded as a synonym of *Eptesicus*  
*nilssoni* (Keyserling and Blasius, 1839) but  
this species does not occur in the New World  
(Hall 1981). Therefore, the host record is  
uncertain.

##### *Urotrema shillingeri* Price, 1931

Site: small intestine  
Hosts: *Nycticeius humeralis* (2)  
*Ondatra zibethicus* (1)  
*O. z. macrodon* (3)  
Dist.: MD, TX  
Records: 1. Price 1931b (MD); 2. Chandler  
1938 (TX); 3. Penner 1941 (MD)

## ORDER STRIGEIFORMES

### LaRue, 1926

#### FAMILY BRACHYLAEMIDAE

Joyeux and Foley, 1930

##### *Brachylaima bravoae* (Deloya, 1970)

Syn.: *Brachylaemus bravoae* Deloya, 1970  
Site: small intestine  
Host: *Liomys pictus pictus*  
Dist.: Mexico  
Record: Deloya 1970

##### *Brachylaima chiapensis* Ubelaker and Dailey, 1966

Site: small intestine  
Host: *Peromyscus guatemalensis*  
*guatemalensis*  
Dist.: Mexico  
Record: Ubelaker and Dailey 1966

##### *Brachylaima didelphus* Premvati and Bair, 1979

Site: intestine  
Host: *Didelphis virginiana*  
Dist.: FL  
Record: Premvati and Bair 1979

*Brachylaima dolichodirus* Mason, 1953

Site: intestine

Host: *Blarina brevicauda*

Dist.: NC, TN

Record: 1. Mason 1953 (TN); 2. Miller et al. 1974

*Brachylaima opisthotrias* (Lutz, 1895) Dollfus, 1935

Syn.: *Distomum opisthotrias* Lutz, 1895  
*Harmostomum opisthotrias* (Lutz, 1895) Braun, 1899

Site: small intestine, ileum

Host: *Didelphis virginiana* (1,2,3,4,5)  
*Didelphis* sp. (6)

Dist.: IL, PA, TN, TX, VA

Records: 1. Dickerson 1930 (VA); 2. Chandler 1932 (TX); 3. Canavan 1934 (PA); 4. Leigh 1940 (IL); 5. Byrd and Reiber 1942a (TN); 6. Babero 1957 (IL)

*Brachylaima opisthotrias virginiana* (Dickerson, 1930)

Syn.: *Harmostomum opisthotrias virginiana* Dickerson, 1930

Site: small intestine

Host: *Didelphis virginiana*

Dist.: VA

Record: Dickerson 1930

*Brachylaima ovatus* (Sinitzin, 1931)

Syn.: *Ectosiphonus ovatus* Sinitzin, 1931

Site: small intestine

Host: *Blarina brevicauda*

Dist.: IA

Record: Wittrock and Hendrickson 1979

*Brachylaima peromysci* Reynolds, 1938

Site: small intestine

Hosts: *Mus musculus* (2)

*Peromyscus leucopus* (2)

*P. l. leucopus* (1)

Dist.: KY, MD, VA

Records: 1. Reynolds 1938 (VA); 2. Hall and Sonnenberg 1955 (KY, MD)

*Brachylaima rauschi* McIntosh, 1950

Site: intestine

Hosts: *Dicrostonyx groenlandicus rubricatus*  
*Microtus miurus muriei*

Dist.: AK

Record: McIntosh 1950; Rausch 1952a

*Brachylaima rhomboideus* (Sinitzin, 1931)

Site: stomach, small intestine

Host: *Blarina brevicauda*

Dist.: CT, IA

Records: Wittrock and Hendrickson 1979 (IA); Huffman and Penner 1981 (CT)

*Brachylaima thompsoni* (Sinitzin, 1931)

Syn.: *Entosiphonus thompsoni* (Sinitzin, 1931)

Site: small intestine

Hosts: *Blarina brevicauda* (3,4,5,6)

*B. b. brevicauda* (2)

*B. b. kirtlandi* (2)

*Peromyscus leucopus leucopus* (1)

*P. l. noveboracensis* (3)

*Sorex cinereus cinereus* (2)

Dist.: CT, IA, MI, NC, WI

Records: 1. Harkema 1936 (NC); 2. Rausch and Tiner 1949 (MI, WI); 3. Villella 1953 (MI); 4. Miller et al. 1974 (NC); 5. Wittrock and Hendrickson 1979 (IA); 6. Huffman and Penner 1981 (CT)

*Brachylaima virginiana* (Dickerson, 1930)

Syn.: *Brachylaemus migrans* of Sinitzin, 1931

*Brachylaimus virginianus* Dickerson, 1930

Site: small intestine

Hosts: *Dasypus noveincinctus* (3)

*Didelphis marsupialis* (15)

*D. virginiana* (2,7,10,12,14)

*D. v. virginiana* (4,11)

*Didelphis* sp. (1,5,6)

*Mephitis mephitis* (8)

*Mustela vison* (9)

*Peromyscus leucopus* (12)

*P. l. noveboracensis* (4)

*Procyon lotor* (16)

Dist.: CA, GA, IL, LA, MI, NC, TN, TX, VA, WV

Records: 1. Reynolds 1938 (VA); 2. Byrd and Reiber 1942a (GA, TN); 3. Chandler 1946 (TX); 4. Rausch and Tiner 1949 (MI); 5. Hand and Voge 1952 (CA); 6. Babero 1957 (IL); 7. 1960a (LA), 8. 1960b (GA); 9. Lumsden and Zischke 1961 (LA); 10. Kaplan 1964 (LA); 11. Holloway 1966 (VA); 12. Miller and Harkema 1970 (NC); 13. Zenchak and Hall 1971 (WV); 14. Feldman et al. 1972 (NC); 15. Nettles et al. 1975 (GA); 16. Schaffer et al. 1981 (VA)

*Brachylaima* spp.

Site: small intestine

Hosts: *Microtus pennsylvanicus terraenovae* (1)

*Ochotona collaris* (2)

*Sciurus carolinensis* (3)

Dist.: AK, MD, NC, Nfld

Records: 1. Rausch 1952b (Nfld); 2. Dunagan 1957a (AK); 3. Davidson 1976 (MD, NC)

*Ityogonimus scalopi* Turner and McKeever, 1980

Site: intestine

Host: *Scalopus aquaticus*

Dist.: SC

Record: Turner and McKeever 1980

*Panopistus pricei* Sinitzin, 1931

Site: small and large intestine

Hosts: *Blarina brevicauda* (2,3,4,5,6)

*B. b. brevicauda* (1)

*B. b. kirtlandi* (1)

Dist.: CT, IL, IA, MI, NC, WI

Records: 1. Rausch and Tiner 1949 (MI, WI);

2. Vilella 1954 (MI); 3. Levin 1957 (IL); 4.

Miller et al. 1974 (NC); 5. Wittrock and

Hendrickson 1979 (IA); 6. Huffman and

Penner 1981 (CT)

*Postharmostomum helicis* (Leidy, 1847) Robinson, 1949

Syn.: *Distoma helicis* Leidy, 1847

*Postharmostomum laruei*, 1934

Site: caecum

Host: *Peromyscus maniculatus* (2)

*Tamias striatus lysteri* (1)

Dist.: MI, Que

Record: 1. McIntosh 1934 (MI); 2. Schad

1956 (Que)

*Postharmostomum noveboracensis* McIntosh, 1937

Site: intestine

Host: *Tamias striatus lysteri*

Dist.: NY

Record: McIntosh 1937

*Scaphiostomum microti* (Kruidenier and Gallicchio, 1959) Mas-Coma, Esteban and Valero, 1986

Syn.: *Brachylaime microti* Kruidenier and Gallicchio, 1959

Site: bile ducts, pancreatic duct

Hosts: *Microtus longicaudus baileyi* (1)

*Peromyscus maniculatus sonoriensis* (2,3,4)

*Spermophilus variegatus utah* (5)

Dist.: CO, UT

Records: 1. Kruidenier and Gallicchio 1959

(CO); 2. Frandsen and Grundmann 1960

(UT); 3. Grundmann and Frandsen 1960

(UT); 4. Frandsen and Grundmann 1961

(UT); 5. Jenkins and Grundmann 1973 (UT)

*Scaphiostomum pancreaticum* McIntosh, 1934

Site: pancreatic duct

Hosts: *Peromyscus gossypinus*

*gossypinus* (2)

*Tamias striatus* (3,4)

*T. s. lysteri* (1)

Dist.: GA, MI, Ont, WI

Records: 1. McIntosh 1934 (MI), 2. 1935

(GA); 3. Rausch and Tiner 1948 (WI); 4.

Jensen 1972 (Ont)

FAMILY CYATHOCOTYLIDAE Muhling, 1898

*Linstowiella szidati* (Anderson, 1944)

Syn.: *Cercaria szidati*, 1944

Site: small intestine

Host: *Didelphis virginiana*

Dist.: LA

Record: Lumsden and Winkler 1962

FAMILY DIPLOSTOMIDAE Poirier, 1886

*Alaria alata* (Goeze, 1782) Krause, 1914

Site: intestine

Host: *Vulpes vulpes*

Dist.: Man, PEI, Que

Record: Swales 1933 (PEI, Que); Baron 1970

(Man)

*Alaria americana* (Hall and Wigdor, 1918)

Syn.: *Alaria canis* LaRue and Fallis, 1936

Site: intestine

Hosts: *Canis latrans* (7,10,13)

*C. lupus* (1,5,7,8,9,10,12,15)

*Lynx canadensis* (7)

*L. rufus* (7,11)

*Martes pennanti* (7)

*Urocyon cinereoargenteus* (4,11)

*Ursus americanus* (15)

*Vulpes vulpes* (1,2,4,6,7,8,14,16,17)

*V. v. alaskensis* (3,5)

Dist.: AK, Alta, MN, NB, NC, NS, Ont, PEI, Que, TX, WI, YT

Records: 1. Law and Kennedy 1932 (Ont); 2.

Swales 1933b (PEI, Que); 3. Dubois and

Rausch 1950 (AK); 4. Erickson 1950 (MN) 5.

Babero and Rausch 1952 (AK); 6. Pearson

1954 exp. (Ont), 7. 1956 (Ont); 8. Dunagan

1957a (AK); 9. Rausch and Williamson 1959

(AK); 10. Holmes and Podesta 1968 (Alta);

11. Miller and Harkema 1968 (NC); 12.

Choquette, Gibson et al. 1973 (YT); 13.

Thornton et al. 1974 (TX); 14. Gilbertson

1977 (MN); 15. Addison et al. 1978 (Ont); 16.

Smith 1978 (NB, NS); 17. Dibble et al. 1983

(WI)

*Alaria americana* Hall and Wigdor, 1918

(mesocercaria)

Site: many tissues

Hosts: *Lutra canadensis* (2)

*Mus musculus* (2)

*Mustela* sp.(1,2)

*Peromyscus maniculatus* (1,2)

Dist.: Ont

Records: 1. Pearson 1954 exp., 2. 1956 exp.

*Alaria arisaemoides* Augustine and Uribe, 1927

Syn.: *Alaria oregonensis* La Rue and Barone, 1927

Site: intestine

Hosts: *Canis latrans* (2,7,8,11)

*C. l. lestes* (3)

*C. lupus* (9,11)

*Urocyon cinereoargenteus* (5)

*Vulpes vulpes* (1,4,5,6,10,11,12,13)

Dist.: Alta, MA, Man, MN, NB, NS, NWT, Ont, OR, WI, YT

Records: 1. Augustine and Uribe 1927 (MA); 2. La Rue and Barone 1927 (OR), 3. 1932 (OR); 4. Law and Kennedy 1932 (Ont); 5. Rankin 1946 (MA); 6. Pearson 1954 exp. (Ont); 7. 1956 (Ont); 8. Holmes and Podesta 1968 (Alta); 9. Choquette, Gibson et al. 1973 (NWT, YT); 10. Gilbertson 1977 (MN); 11. Samuel, Ramalingam et al. 1978 (Man); 12. Smith 1978 (NB, NS); 13. Dibble et al. 1983 (WI)

*Alaria arisaemoides* Augustine and Uribe, 1927

(mesocercaria)

Site: many tissues

Hosts: *Mus musculus* (2)

*Mustela* sp. (1)

*Peromyscus maniculatus* (1,2)

Ferret (1)

Lab. mice (1)

Dist.: Ont

Records: 1. Pearson 1954 exp. , 2. 1956

*Alaria craterum* (Barker and Noll, 1915)

Site: duodenum

Hosts: *Mustela vison* (1)

*Ondatra zibethicus* (1)

Dist.: Ont

Record: Law and Kennedy 1932

*Alaria marcianae* (LaRue, 1917) Walton, 1949

Site: small intestine

Hosts: *Canis latrans* (2,4,6)

*C. lupus* (7)

*Lynx canadensis* (8)

*L. rufus* (3)

*Mephitis mephitis* (1)

*Procyon lotor hirtus* (5)

*Spilogale putorius* (1)

*Taxidea taxus* (1)

*Urocyon cinereoargenteus* (1)

*Vulpes vulpes* (1,5)

Dist.: Man, MN, MT, Ont, Que, Sask, TX  
Records: 1. Johnson 1968 (MN); 2. Samuel, Ramalingam et al. 1978 (Man); 3. Stone and Pence 1978 (TX); 4. Pence and Meinzer 1979 (TX); 5. Hoberg and McGee 1982 (Sask); 6. Seese et al. 1983 (MT); 7. McNeill et al. 1984 (Que); 8. Smith et al. 1986 (Ont)

*Alaria minnesotae* Chandler, 1954

Site: small intestine

Host: *Mephitis mephitis*

Dist.: MN

Record: Chandler 1954

*Alaria mustelae* Bosma, 1931

Syn.: *Alaria canadensis* Webster and Wolfgang, 1956

*Alaria dubia* Chandler and Rausch, 1946

*Alaria intermedia* Olivier and Odlaug, 1938

*Alaria minuta* Chandler and Rausch, 1946

*Alaria taxideae* Swanson and Erickson, 1946

Site: small intestine

Hosts: *Canis latrans* (9)

*Gulo luscus* (14,16)

*Martes americana* (27)

*M. a. actuosa* (17)

*M. pennanti* (24)

*Mephitis mephitis* (5,7,13,20,25)

*M. m. nigra* (6,8,11)

*Mustela erminea* (25)

*M. e. cicognanii* (5,7)

*M. frenata* (5,7,12,25)

*M. f. noveboracensis* (3,7)

*M. vison* (1,2,3,4,5,12,18,19,25)

*M. v. letifera* (7)

*Mustela* spp. (1)

*Ondatra zibethicus* (2,10,14,15,26)

*Spilogale putorius* (5,7,9,25)

*Taxidea taxus* (4,7,21,22,25)

*Urocyon c. cinereoargenteus* (6)

*Vulpes vulpes* (2,23)

Dist.: AK, IA, MA, Man, MD, MI, MN, NB, NC, ND, NS, NWT, Ont, OR, Que, WI  
Records: 1. Bosma 1931 (MI); 2. Law and Kennedy 1932 (Ont); 3. Bosma 1934 (MI); 4. Chandler and Rausch 1946 (MI); 5. Erickson 1946 (MN); 6. Rankin 1946 (MA); 7. Swanson and Erickson 1946 (MN); 8. Rausch

and Tiner 1949 (MI); 9. Erickson 1950 (MN); 10. Sweatman 1952 (Ont); 11. Goldberg 1954 (MD); 12. Senger and Neiland 1955 (OR); 13. Webster and Wolfgang 1956 (Que); 14. Dunagan 1957a (AK), 15. 1957b (AK); 16. Dubois and Rausch 1960 (AK); 17. Holmes 1963 (NWT); 18. Miller and Harkema 1964 (NC); 19. Dorney and Lauerman 1969 (WI); 20. Dyer 1970 (ND); 21. Leiby et al. 1971 (ND); 22. Wittrock and Ulmer 1974 (IA); 23. Smith 1978b (NB,NS); 24. Dick and Leonard 1979 (Man); 25. Johnson 1979 (MN); 26. McKenzie and Welch 1979 (Man); 27. Poole et al. 1983 (Man)

*Alaria mustelae* Bosma, 1931 (mesocercaria)

Site: lungs, spleen, musculature  
Host: *Spermophilus franklinii*  
Dist.: Sask  
Record: McGee 1980 (Sask)

*Alaria mustelae* Bosma, 1931 (metacercaria)

Site: muscle  
Host: *Peromyscus leucopus noveboracensis*  
Dist.: MI  
Record: Bosma 1934

*Alaria nasuae* LaRue and Townsend, 1927

Site: ceca  
Host: *Nasua nasua*  
Dist.: DC  
Records: LaRue and Townsend 1927, 1932  
Remarks: The specimens for LaRue and Townsend's (1927) study came from material deposited in a collection housed at the Bureau of Animal Industry, Washington, DC. The collection site was not given in the paper.

*Alaria* spp.

Site: small intestine  
Hosts: *Canis latrans* (1,7)  
*C. lupus* (8)  
*Gulo luscus* (4,6)  
*Lynx canadensis* (5)  
*Martes pennanti* (2)  
*Mephitis mephitis avia* (3)  
Dist.: AK, Alta, NWT, Ont, OR, TX, WI  
Records: 1. Cram 1926 (OR); 2. Anonymous 1930 (Ont); 3. Rausch and Tiner 1949 (WI); 4. Rausch 1959 (AK); 5. Zyll DeJong 1966 (Alta,NWT); 6. Addison and Boles 1978 (NWT); 7. Pence and Meinzer 1979 (TX); 8. Archer et al. 1986 (WI)

*Didelphodiplostomum variabile* (Chandler, 1932)  
Dubois, 1945

Syn.: *Diplostomum variabile* (Chandler, 1932)  
*Proalaria variabilis* Chandler, 1932

Site: intestine  
Host: *Didelphis virginiana* (1,2,3,4,6,7,8)  
*Didelphis* sp. (5)  
Dist.: FL, GA, IL, NC, TN, TX  
Records: 1. Chandler 1932 (TX); 2. Leigh 1940 (IL); 3. Byrd and Reiber 1942a (IL,TN); 4. Babero 1957 (IL), 5. 1960a (GA); 6. Miller and Harkema 1970 (NC); 7. Feldman et al. 1972 (NC); 8. Premvati and Bair 1979 (FL)

*Diplostomum mergi* Dubois, 1932

Site: intestine  
Host: *Ondatra zibethicus obscurus*  
Dist.: Nfld  
Record: Rigby and Threlfall 1981

*Enhydridiplostomum alarioides* (Dubois, 1937)  
Dubois, 1944

Site: small intestine  
Hosts: *Lutra canadensis* (1,3,4)  
Dist.: AL, GA, NC  
Records: 1. Sawyer 1961 (GA); 2. Miller and Harkema 1964 (NC), 3. 1968 (NC); 4. Flemming et al. 1977 (AL)

*Fibricola cratera* (Barker and Noll, 1915) Dubois, 1932

Syn.: *Hemistomum craterum* Barker and Noll, 1915  
*Fibricola laruei* Miller, 1940  
*Fibricola nana* Chandler and Rausch, 1946

Site: intestine  
Hosts: *Didelphis virginiana* (3,16)  
*D. v. virginiana* (5)  
*Mephitis mephitis* (7,10)  
*M. m. nigra* (6)  
*Mustela vison* (5,11)  
*Ondatra zibethicus* (1)  
*O. z. osoyoosensis* (14)  
*O. z. zibethicus* (8,13)  
*Peromyscus maniculatus bairdii* (6)  
*Procyon lotor* (2,7,9,11,12,17)  
*P. l. lotor* (6)  
*Tamiasciurus hudsonicus* (4)  
*T. h. loquax* (4)  
*Taxidea taxus* (15)

Dist.: FL, GA, IA, IL, LA, MI, NC, NE, OH, Que, SC, TN, TX, UT, WI, WY  
Records: 1. Barker 1915 (NE); 2. Miller 1940 (Que); 3. Byrd and Reiber 1942a (GA,TN); 4. Rausch and Tiner 1948 (MI); 5. Read 1948 (TX); 6. Rausch and Tiner 1949 (MI,WI); 7. Dubois and Rausch 1950 (WY); 8. Gilford

1954 (IL); 9. Hoffman 1955 (unspecified); 10. Webster and Wolfgang 1956 (Que); 11. Lumsden and Zischke 1961 (LA); 12. Harkema and Miller 1964 (FL,NC,SC); 13. Beckett and Gallicchio 1967 (OH); 14. Grundmann and Tsai 1967 (UT); 15. Wittrock and Ulmer 1974 (IA); 16. Premvati and Bair 1979 (FL); 17. Schaffer et al. 1981 (FL,GA,TX)  
Remarks: Rausch and Tiner (1948) considered *T. h. loquax* an accidental host for *F. nana*.

*Fibricola lucida* (LaRue and Bosma, 1927) Dubois and Rausch, 1950

Syn.: *Neodiplostomum lucidum* LaRue and Bosma, 1927

Site: duodenum, small intestine

Hosts: *Didelphis virginiana* (1,2,5,6,7)

*Didelphis* sp. (4)

*Mustela vison* (3)

Dist.: FL, GA, IL, LA, TN, TX

Records: 1. LaRue and Bosma 1927 (TX); 2. Byrd and Reiber 1942 (GA,TN); 3. Read 1948 (TX); 4. Babero 1957 (IL); 5. Lumsden and Zischke 1961 (LA); 6. Kaplan 1964 (LA); 7. Premvati and Bair 1979 (FL)

*Fibricola texensis* Chandler, 1942

Site: small intestine

Hosts: *Procyon lotor* (3,4,5,7)

*P. l. lotor* (1,2)

*P. l. solutus* (6)

Dist.: GA, SC, TN, TX

Records: 1. Chandler 1942a (TX), 2. 1942b (TX); 3. Dubois and Rausch 1950 (TX); 4. Babero and Shepperson 1958 (GA); 5. Sawyer 1958 (GA); 6. Harkema and Miller 1962 (SC); 7. Bafundo et al. 1980 (TN)

*Fibricola* spp.

Site: small intestine

Hosts: *Procyon lotor* (1)

*Sus scrofa* (2)

Dist.: GA

Records: 1. Babero and Shepperson 1958; 2. Babero et al. 1959

*Parallelorchis diglossus* Harkema and Miller, 1961

Site: small intestine

Host: *Procyon lotor*

Dist.: FL, TN

Records: 1. Harkema and Miller 1961 (FL), 2. 1964 (FL); 3. Bafundo et al. 1980 (TN); 4. Schaffer et al. 1981 (FL)

*Pharyngostomoides adenocephala* Beckerdite, Miller and Harkema, 1971

Site: small intestine

Hosts: *Procyon lotor* (1,2,4)

*P. l. hirtus* (3)

Dist.: FL, NC, Ont, Sask, TX

Records: 1. Beckerdite et al. 1971 (NC); 2. Schaffer et al. 1981 (FL,TX); 3. Hoberg and McGee 1982 (Sask); 4. Butterworth and Holmes 1984 (Ont)

*Pharyngostomoides ovale* Chandler and Rausch, 1946

Site: intestine

Hosts: *Procyon lotor* (2)

*P. l. lotor* (1)

Dist.: FL, MI

Records: 1. Rausch and Tiner 1949 (MI); 2. Loftin 1960 (FL)

*Pharyngostomoides procyonis* Harkema, 1942

Site: small intestine

Hosts: *Procyon lotor* (3,4,6,7,8,9,10,12,13)

*P. l. lotor* (1,2)

*P. l. solutus* (5)

*Ursus americanus* (11)

Dist.: FL, GA, NC, Ont, SC, TN, TX, VA

Records: 1. Chandler 1942a (TX); 2. Harkema 1942 (NC); 3. Babero and Shepperson 1958 (GA); 4. Sawyer 1958 (GA); 5. Harkema and Miller 1962 (SC), 6. 1964 (FL, GA, NC, SC, VA); 7. Harris et al. 1967 (NC); 8. Beckerdite et al. 1971 (NC,TX); 9. Bafundo et al. 1980 (TN); 10. Schaffer et al. 1981 (FL, NC, TX, VA); 11. Conti et al. 1983 (FL); 12. Butterworth and Holmes 1984 (Ont); 13. Miller 1984 (NC)

*Procyotrema marsupiformis* Harkema and Miller, 1959

Site: gall bladder, pancreatic duct

Hosts: *Procyon lotor* (2,3,4,6)

*P. l. lotor* (1)

*Urocyon cinereoargenteus* (5)

Dist.: MD, NC

Records: 1. Harkema and Miller 1959 (NC), 2. 1964 (NC); 3. Miller and Harkema 1964 (NC); 4. Locke and Brown 1965 (MD); 5. Miller and Harkema 1968 (NC); 6. Schaffer et al. 1981 (NC)

FAMILY HASSTILESIIDAE Hall, 1916

*Hasstilesia tricolor* (Stiles and Hassall, 1894) Hall, 1916

Syn.: *Distoma tricolor* Stiles and Hassall, 1894

*Hasstilesia novicia*

*Hasstilesia texensis* Chandler, 1929

*Monostomum* sp. of Curtice (1892)

Site: small intestine

Hosts: *Lepus americanus* (1)

*L. californicus texianus* (3)

*Sylvilagus aquaticus* (17)

*S. a. aquaticus* (7)

*S. floridanus* (7,12,18,21,22,23,24,25)

*S. f. alacer* (3)

*S. f. mallurus* (4,15,19)

*S. f. mearnsii* (6,11,13,14)

*S. nutallii* (1,16)

*S. palustris* (19,20)

*S. p. palustris* (15)

*S. transitionalis* (20)

*Vulpes vulpes* (15)

Cottontail (5,8,9)

Jack Rabbit (2)

Rabbit (2,10)

Varying hare (5)

Dist.: AL, AR, CT, DC, FL, GA, IA, KS, KY, LA, MD, MI, MN, MO, MS, NC, NJ, NY, OH, PA, RI, SC, TN, TX, VA, WI, WV

Records: 1. Stiles and Hassall 1894b (DC, VA); 2. Hall 1916 (DC, MD, NY, TX, VA); 3. Chandler 1929 (TX); 4. Harkema 1936 (NC); 5. Bump 1937 (NY); 6. Morgan and Waller 1940 (IA); 7. Byrd and Reiber 1942b (MS, TN); 8. Bell and Chalgren 1943 (AL, CT, KS, MD, MO, NJ, NY, PA, RI, VA, WV); 9. Llewellyn and Handley 1945 (VA); 10. Ward 1946 (MS); 11. Erickson 1947 (MN); 12. Moore and Moore 1947 (AL); 13. Rausch and Tiner 1949 (MI, WI); 14. Rowan 1955 (NY); 15. Robinson 1959 (GA, NY, OH); 16. Marker and Cheng 1960 (PA); 17. Lumsden and Zischke 1961 (LA); 18. Franklin et al. 1966 (KS); 19. Stringer et al. 1969 (NC); 20. Eckerlin 1973 (CT, FL); 21. Jacobson et al. 1974 (VA); 22. Jacobson et al. 1978 (VA); 23. Andrews et al. 1980 (AL, AR, MD, MS, NC, SC, VA); 24. Wiggins et al. 1980 (PA); 25. Strohlein and Christensen 1983 (KY)  
Remarks: Curtice (1892) originally described this trematode as *Monostomum* sp. from *Lepus americanus*. The *Monostomum* sp. was subsequently redescribed as *Hasstilesia tricolor* (Stiles and Hassall, 1894) Hall, 1916.

*Hasstilesia* spp.

Site: intestine

Host: Cottontail rabbit

Dist.: NY

Records: Bump 1940, 1941, 1942

FAMILY LEUCOCHLORIDIOMORPHIDAE

Travassos and Kohn, 1966

*Ptyalincola ondatrae* Wootton and Murrell, 1967

Site: ducts of salivary glands and oral cavity

Host: *Ondatra zibethicus*

Dist.: MI

Record: Wootton and Murrell 1967

FAMILY SCHISTOSOMATIDAE

Stiles and Hassall, 1898

*Heterobilharzia americana* Price, 1929

Site: liver, mesenteric and portal veins

Hosts: *Canis latrans* (9)

*C. latrans* x *C. rufus* (9)

*C. rufus* (9)

*Castor canadensis* (12)

*Didelphis virginiana* (7)

*Lynx rufus floridanus* (1)

*Myocastor coypus* (4,5,7)

*Odocoileus virginianus* (8)

*Procyon lotor* (2,3,4,5,6,7,8,10,11,13)

*Sylvilagus aquaticus* (4,5)

Rabbit (7)

Dist.: FL, GA, LA, NC, SC, TX

Records: 1. Price 1929 (FL); 2. 1943 (TX); 3. Miller and Harkema 1960 (NC); 4. Malek et al. 1961 (FL, LA); 5. Lee 1962 (LA); 6. Harkema and Miller 1964 (FL, NC); 7. Kaplan 1964 (LA); 8. Byrd et al. 1967 (GA, SC); 9. Custer and Pence 1981 (LA, TX); 10. Schaffer et al. 1981 (FL, NC, TX); 11. Kocan et al. 1982 (FL); 12. Fedynick et al. 1986 (TX); 13. Short and Grossman 1986 (TX)

Remarks: Price (1929) collected his specimens from a *Lynx* sp., possibly *L. uinta*, from the National Zoological Park in Washington, DC.

*Heterobilharzia* spp.

Site: mesenteric or portal vein

Host: *Myocastor coypus bonariensis*

Dist.: LA

Record: Babero and Lee 1961

*Schistosomatum douthitti* (Cort, 1914) Price, 1929

Site: portal and mesenteric veins, liver, spleen

Hosts: *Erethizon dorsatum* (7)

*Microtus pennsylvanicus* (5,9)

*M. p. pennsylvanicus* (2)

*Ondatra zibethicus* (1,3,10,11)

*O. z. zibethicus* (4,6)

*Peromyscus leucopus* (9)

*Zapus hudsonius* (8,9)

Dist.: IL, Man, MI, MN, NB, OH, Ont

Records: 1. Penner 1938 (MI,MN); 2. Price 1939 (MI); 3. Ameal 1942 (MI); 4. Gilford 1954 (IL); 5. Farley 1962 (Man); 6. Beckett and Gallicchio 1967 (OH); 7. Choquette, Broughton et al. 1973 (Ont); 8. Carmichael and Muchlinski 1980 (MI); 9. Zajac and Williams 1980 (MI); 10. MacKinnon and Burt 1978 (NB); 11. McKenzie and Welch 1979 (Man)

#### UNIDENTIFIED SCHISTOSOMATIDAE

*Schistosomatidae* gen. spp.

Site: intestinal contents

Host: *Myocastor coypus bonariensis*

Dist.: LA

Record: Babero and Lee 1961

#### UNIDENTIFIED DIGENEA

*Braunina cordiformis* (Wolf)

Site: pyloric and second stomachs

Host: *Tursiops nesarnack*

Dist.: CA, FL

Records: Johnston and Ridgway 1969 (CA); Woodard et al. 1969 (FL)

*Digenea* gen. spp.

Site: small intestine, spinal cord at the foramen magnum

Hosts: *Eptesicus fuscus* (5)

*Globicephala sieboldii* (3)

*Myotis keenii* (5)

*M. lucifugus* (5)

*M. velifer incautus* (2)

*Peromyscus maniculatus* (1)

*Pipistrellus subflavus* (5)

*Tadarida brasiliensis* (2)

*Zalophus californianus* (4)

Dist.: CA, IN, TX

Records: 1. Schad 1956 (Que); 2. Jameson 1959 (TX); 3. Norris 1966 (CA); 4. Migaki et al. 1971 (unspecified); 5. Whitaker and Mumford 1971 (IN)



# HOST - PARASITE LIST



**CLASS MAMMALIA**  
**SUBCLASS THERIA**  
**INFRACLASS EUTHERIA**  
**ORDER ARTIODACTYLA**  
**FAMILY BOVIDAE**

*Bison bison* (Linnaeus) American bison  
 FASCIOLIDAE  
*Fasciola hepatica* (MT, WY)

*Bos taurus* Linnaeus Feral cattle  
 FASCIOLIDAE  
*Fasciola hepatica* (GA)  
 PARAMPHISTOMIDAE  
*Calicophoron microbothrioides* (GA)

**FAMILY CERVIDAE**

*Alces alces* (Linnaeus) Moose  
 FASCIOLIDAE  
*Fascioloides magna* (Alta, BC, Man, MN, Ont)  
 PARAMPHISTOMIDAE  
*Paramphistomum cervi*  
 (MN, Nfld, Ont, Que, Sask)  
*P. liorchis* (Ont)  
*Paramphistomum* spp. (Alta, MN)  
*Zygocotyle lunata* (Alta)

*Alces alces americana* (Clinton)  
 SYN.: *Alces americanus* (Clinton)  
 FASCIOLIDAE  
*Fascioloides magna* (MN)  
 PARAMPHISTOMIDAE  
*Paramphistomum cervi* (MN)

*Cervus elaphus* (Linnaeus) Wapiti  
 FASCIOLIDAE  
*Fasciola hepatica* (MT)  
*Fascioloides magna* (Alta, BC, Ont, OR, Que,)

*Cervus elaphus nelsoni* Bailey  
 SYN.: *Cervus canadensis nelsoni* Bailey  
 FASCIOLIDAE  
*Fascioloides magna* (OR)

*Cervus elaphus roosevelti* Merriam  
 SYN.: *Cervus canadensis roosevelti* Merriam  
 FASCIOLIDAE  
*Fascioloides magna* (WA)

*Cervus unicolor* Sambar deer  
 PARAMPHISTOMIDAE  
*Paramphistomum liorchis* (FL)

*Odocoileus hemionus* (Rafinesque) Black-tailed deer  
 FASCIOLIDAE

*Fasciola hepatica* (WA)  
*Odocoileus hemionus columbianus* (Richardson)  
 FASCIOLIDAE  
*Fasciola hepatica* (BC, CA)  
*Fascioloides magna* (Alta, BC, NY, OR)  
*Odocoileus hemionus hemionus* (Rafinesque)  
 FASCIOLIDAE  
*Fascioloides magna* (Alta, BC)

*Odocoileus virginianus* (Zimmerman) White-tailed deer  
 SYN.: *Cariacus virginianus* (Zimmerman)

DICROCOELIDAE  
*Dicrocoelium dendriticum* (NY)  
 FASCIOLIDAE  
*Fasciola hepatica* (WA)  
*Fascioloides magna*  
 (AL, Alta, AR, BC, FL, GA, LA, MI, MN, MS, MT, N  
 C, NY, Ont, OR, Que, SC, TN, TX, WI)  
 PARAMPHISTOMIDAE

*Paramphistomum cervi* (AL)  
*P. liorchis* (AL, FL, GA, LA, SC)  
 Paramphistomidae gen. spp. (FL)  
*Zygocotyle lunata* (MI)  
 SCHISTOSOMATIDAE

*Heterobilharzia americana* (SC)  
*Odocoileus virginianus borealis* Miller  
 FASCIOLIDAE  
*Fascioloides magna* (MN)

*Odocoileus virginianus leucurus* (Douglas)  
 FASCIOLIDAE  
*Fascioloides magna* (OR)

*Odocoileus* spp.  
 FASCIOLIDAE  
*Fasciola hepatica* (CA, MT)  
*Fascioloides magna* (MT, NC, NY, Ont)  
 PARAMPHISTOMIDAE  
*Paramphistomum liorchis* (AL, GA)

*Rangifer tarandus caribou* (Gmelin) Caribou  
 SYN.: *Rangifer caribou sylvestris* Richardson  
 FASCIOLIDAE  
*Fascioloides magna* (MN, Que)

**FAMILY SUIDAE**

*Sus scrofa* Feral swine  
 DIPLOSTOMIDAE  
*Fibricola* spp. (GA)  
 FASCIOLIDAE  
*Fasciola hepatica* (GA)  
*Fascioloides magna* (TX)  
 MICROPHALLIDAE  
*Pseudospilotrematoides* spp. (GA)

FAMILY TAYASSUIDAE

*Dicotyles tajacu angulatus* Cope Collared peccary  
FASCIOLIDAE  
*Fascioloides magna* (TX)

ORDER CARNIVORA  
FAMILY CANIDAE

*Alopex lagopus* (Linnaeus) Arctic fox  
SYN.: *Vulpes lagopus*  
ECHINOSTOMATIDAE  
*Echinoparyphium* spp. (GD)  
HETEROPHYIDAE  
*Apophallus venustus* (DC)  
*Cryptocotyle concavum* (GD)  
*Phagicola longa* (DC)  
*P. nana* (DC)  
PLAGIORCHIIDAE  
*Plagiorchis elegans* (AK,GD)

*Canis latrans* Say Coyote  
DIPLOSTOMIDAE  
*Alaria americana* (Alta,Ont,TX)  
*A. arisaemoides* (Alta,Man,Ont,OR)  
*A. marcianae* (Man,MT,TX)  
*A. mustelae* (MN)  
*Alaria* spp. (OR,TX)  
NANOPHYETIDAE  
*Nanophyetus salmincola* (OR)  
OPISTHORCHIIDAE  
*Metorchis conjunctus* (Alta)  
PARAGONIMIDAE  
*Paragonimus kellicotti* (Ont)  
SCHISTOSOMATIDAE  
*Heterobilharzia americana* (LA,TX)

*Canis latrans lestes* Merriam  
SYN.: *Canis lestes* Merriam  
DIPLOSTOMIDAE  
*Alaria arisaemoides* (OR)  
NANOPHYETIDAE  
*Nanophyetus salmincola* (WA)

*Canis lupus* Linnaeus Gray wolf  
DIPLOSTOMIDAE  
*Alaria americana* (AK,Alta,Ont,YT)  
*A. arisaemoides* (Man,NWT,YT)  
*A. marcianae* (Que)  
*Alaria* sp. (WI)  
OPISTHORCHIIDAE  
*Metorchis conjunctus* (Alta,Sask)

*Canis rufus* Audubon and Bachman Red wolf  
SCHISTOSOMATIDAE  
*Heterobilharzia americana* (LA,TX)

*Canis rufus* x *Canis latrans*  
DICROCOELIIDAE  
*Eurytrema procyonis* (LA,TX)  
SCHISTOSOMATIDAE  
*Heterobilharzia americana* (LA,TX)

*Urocyon cinereoargenteus* (Schreber) Gray fox  
DICROCOELIIDAE  
*Eurytrema procyonis* (MD,NC)  
DIPLOSTOMIDAE  
*Alaria americana* (MN,NC)  
*A. arisaemoides* (MA)  
*A. marcianae* (MN)  
*Procyotrema marsupiformis* (NC)  
HETEROPHYIDAE  
*Euryhalmis squamula* (GA)  
PARAGONIMIDAE  
*Paragonimus mexicanus* (Costa Rica)  
TROGLOTREMATIDAE  
*Troglorema mustelae* (GA)

*Urocyon cinereoargenteus cinereoargenteus*  
(Schreber)  
DIPLOSTOMIDAE  
*Alaria arisaemoides* (MA)  
*A. mustelae* (MA)

*Vulpes vulpes* Linnaeus Red fox  
SYN.: *Vulpes fulva* Desmarest  
DICROCOELIIDAE  
*Eurytrema procyonis* (NY)  
DIPLOSTOMIDAE  
*Alaria alata* (Man,PEI,Que)  
*A. americana*  
(AK,MN,NB,NS,Ont,PEI,Que,WI)  
*A. arisaemoides*  
(MA,Man,MN,NB,NS,Ont,WI)  
*A. marcianae* (MN,Sask)  
*A. mustelae* (NB,NS,Ont)  
ECHINOSTOMATIDAE  
*Echinoparyphium* spp. (IL)  
*Echinostoma revolutum* (NB,NS)  
HASSTILESIIIDAE  
*Hasstilesia tricolor* (OH)  
HETEROPHYIDAE  
*Cryptocotyle lingua* (NB,NS)  
*Phagicola longa* (Ont,Que)  
NANOPHYETIDAE  
*Nanophyetus salmincola* (OR)  
OPISTHORCHIIDAE  
*Metorchis conjunctus* (NB,NS)  
PARAGONIMIDAE  
*Paragonimus kellicotti* (MN,Ont)  
PLAGIORCHIIDAE  
*Plagiorchis elegans* (AK)  
*Vulpes vulpes alascensis* Merriam  
SYN.: *Vulpes fulva alascensis* Merriam  
DIPLOSTOMIDAE

*Alaria americana* (AK)  
PLAGIORCHIIDAE  
*Plagiorchis massino* (AK)

CANIDAE OF UNDETERMINED SPECIES

Canidae gen. spp. Fox  
DICROCOELIIDAE  
*Eurytrema procyonis* (NY)

FAMILY FELIDAE

*Felis concolor* Kerr Mountain lion  
NANOPHYETIDAE  
*Nanophyetus salmincola* (OR)

*Felis onca* Mearns Jaguar  
SYN.: *Panthera onca* (Mearns)  
PARAGONIMIDAE  
*Paragonimus rudis* (GA,NC)  
*Paragonimus* spp. (Belize)

*Felis pardalis* (Linnaeus) Ocelot  
PARAGONIMIDAE  
*Paragonimus mexicanus* (Costa Rica)  
*Paragonimus* spp. (Belize)

*Lynx canadensis* Kerr Lynx  
DIPLOSTOMIDAE  
*Alaria americana* (Ont)  
*A. marciana* (Ont)  
*Alaria* sp. (Alta,NWT)  
OPISTHORCHIIDAE  
*Opisthorchis tenuicollis* (PA)

*Lynx rufus* (Schreber) Bobcat  
SYN.: *Felis rufa* Schreber  
DIPLOSTOMIDAE  
*Alaria americana* (NC,Ont)  
*A. marciana* (TX)  
NANOPHYETIDAE  
*Nanophyetus salmincola* (OR)  
PARAGONIMIDAE  
*Paragonimus kellicotti* (GA,NC,WV)  
*P. rudis* (NC)

*Lynx rufus fasciatus* Rafinesque  
SYN.: *Lynx fasciatus fasciatus* Rafinesque  
NANOPHYETIDAE  
*Nanophyetus salmincola* (WA)  
*Lynx rufus floridanus* Rafinesque  
SCHISTOSOMATIDAE  
*Heterobilharzia americana* (FL)

FELIDAE OF UNDETERMINED SPECIES

Felidae gen. spp.  
PARAGONIMIDAE

*Paragonimus* spp. (Belize)

FAMILY MUSTELIDAE

*Enhydra lutris* (Linnaeus) Sea otter  
CAMPULIDAE

*Orthosplanchnus fraterculus* (AK)  
HETEROPHYIDAE  
*Phocitrema fusiforme* (AK)  
*Pricitrema zalophi* (AK)  
MICROPHALLIDAE  
*Microphallus enhydrae* (AK)  
*M. pirum* (AK)

*Gulo luscus* (Linnaeus) Wolverine  
SYN.: *Gulo Gulo*  
DIPLOSTOMIDAE  
*Alaria mustelae* (AK)  
*Alaria* spp. (AK,NWT)

*Lutra canadensis* (Schreber) River otter  
SYN.: *Lutra canadensis vaga* Bangs  
DIPLOSTOMIDAE  
*Alaria americana* (Ont)  
*Enhydridiplostomum alarioides* (AL,GA,NC)  
ECHINOSTOMATIDAE  
*Baschkirovitrema incrassatum*  
(AL,GA,NC,NY)  
*Euparyphium melis* (MI)  
NANOPHYETIDAE  
*Nanophyetus salmincola* (OR,WA)  
TELORCHIIDAE  
*Telorchis* spp. (AL)

*Martes americana* (Turton) Marten  
DIPLOSTOMIDAE  
*Alaria mustelae* (Man)  
*Martes americana actiosa* (Osgood)  
DIPLOSTOMIDAE  
*Alaria mustelae* (NWT)

*Martes pennanti* (Erxleben) Fisher  
DIPLOSTOMIDAE  
*Alaria americana* (Ont)  
*A. mustelae* (Man)  
*Alaria* spp. (Ont)  
ECHINOSTOMATIDAE  
*Echinostoma* spp. (Ont)  
OPISTHORCHIIDAE  
*Metorchis conjunctus* (Man)

*Mephitis macroura macroura* Lichtenstein  
PARAGONIMIDAE Hooded skunk  
*Paragonimus rudis* (Guatemala)

*Mephitis mephitis* Schreber Striped skunk  
BRACHYLAEMIDAE

- Brachylaima virginiana* (GA)  
DIPLOSTOMIDAE  
*Alaria marcianae* (MN)  
*A. minnesotae* (MN)  
*A. mustelae* (MN,ND,Que)  
*Fibricola cratera* (Que,WY)  
HETEROPHYIDAE  
*Apophallus* spp. (Que)  
*Euryhalmis pyriformis* (Que)  
PARAGONIMIDAE  
*Paragonimus kellicotti* (GA,IA,MD,MN,Ont)  
PLAGIORCHIIDAE  
*Plagiorchis muris* (ND)  
PSILOSTOMIDAE  
*Psilostomum* spp. (LA)
- Mephitis mephitis avia* Bangs      Striped skunk  
DIPLOSTOMIDAE  
*Alaria* spp. (WI)  
*Mephitis mephitis nigra* (Peale and Palisot de Beauvois)  
SYN.: *Mephitis nigra* (Peale and Palisot de Beauvois)  
DIPLOSTOMIDAE  
*A. mustelae* (MA,MD,MI)  
*Fibricola cratera* (MI)
- Mustela erminea* (Linnaeus)      Ermine  
DIPLOSTOMIDAE  
*Alaria mustelae* (MN)  
NANOPHYETIDAE  
*Nanophyetus salmincola* (OR)  
*Mustela erminea cicognanii* Bonaparte  
SYN.: *Mustela cicognanii* Bonaparte  
DIPLOSTOMIDAE  
*Alaria mustelae* (MN)  
ECHINOSTOMATIDAE  
*Euparyphium melis* (MN)
- Mustela frenata* Lichenstein      Long-tailed weasel  
DIPLOSTOMIDAE  
*Alaria mustelae* (MN,OR)  
*Mustela frenata noveboracensis* (Emmons)  
SYN.: *Mustela noveboracensis noveboracensis* (Emmons)  
DIPLOSTOMIDAE  
*Alaria musteleae* (MI,MN)
- Mustela vison* Schreber      Mink  
ALLASSOGONOPORIDAE  
*Cephalophallus obscurus* (MI,OR)  
BRACHYLAEMIDAE  
*Brachylaema virginiana* (LA)  
DIPLOSTOMIDAE  
*Alaria craterum* (Ont)  
*A. mustelae* (MI,MN,NC,Ont,OR,WI)  
*Enhydriidiplostomum alarioides* (NC)
- Fibricola cratera* (LA,TX)  
*F. lucida* (TX)  
*Procyotrema marsupiformis* (NC)  
ECHINOSTOMATIDAE  
*Baschkirouitrema incrassatum* (NC)  
*Euparyphium melis* (MI,MN,Ont)  
*Euparyphium beaveri* (LA,NC,WI)  
*E. inerme* (Ont)  
HETEROPHYIDAE  
*Euryhalmis monorchis* (MI,OH,WI)  
*E. pacificus* (OR)  
*E. squamula* (NC,OR)  
*Metagonimoides oregonensis* (MI,OR,NC)  
LECITHODENDRIIDAE  
*Paralecithodendrium naviculum* (MI)  
NANOPHYETIDAE  
*Nanophyetus salmincola* (Ont,OR)  
OPISTHORCHIIDAE  
*Parametorchis complexus* (Ont)  
PARAGONIMIDAE  
*Paragonimus kellicotti* (MI,MN,NC,OH,Ont,WI)  
*P. rudis* (NC)  
*Paragonimus* spp. (Ont)  
PLAGIORCHIIDAE  
*Plagiorchis proximus* (Ont)  
RHOPALIASIDAE  
*Gyrosoma singularis* (LA)  
*Rhopalias macracanthus* (LA)  
TROGLOTREMATIDAE  
*Troglorema mustelae* (MN,NC)  
*Mustela vison letifera* Hollister  
DIPLOSTOMIDAE  
*A. mustelae* (WI)  
ECHINOSTOMATIDAE  
*Euparyphium melis* (WI)  
*Mustela vison vulgivaga* (Bangs)  
TROGLOTREMATIDAE  
*Sellacoytle vitellosa* (LA)  
*Mustela* spp.  
DICROCOELIIDAE  
*Dicrocoelium dendriticum* (PEI)  
DIPLOSTOMIDAE  
*Alaria americana* (Ont)  
*A. arisaemoides* (Ont)  
*A. mustelae* (MI)
- Spilogale putorius* (Linnaeus)      Spotted skunk  
DIPLOSTOMIDAE  
*Alaria marcianae* (MN)  
*A. mustelae* (MN)  
NANOPHYETIDAE  
*Nanophyetus salmincola* (OR)
- Taxidea taxus* (Schreber)      Badger  
DIPLOSTOMIDAE  
*Alaria marcianae* (MN)

*A. mustelae* (IA,MN,ND)  
*Fibricola cratera* (IA)  
ECHINOSTOMATIDAE  
*Euparyphium melis* (IA,ND)  
*Euparyphium* spp. (MN)

MUSTELIDAE OF  
UNDETERMINED SPECIES

Skunk

PSILOSTOMIDAE  
*Ribeiroia ondatrae* (FL)

FAMILY PROCYONIDAE

*Nasua nasua* (Linnaeus)

SYN.: *Nasua narica* (Linnaeus)

DIPLOSTOMIDAE  
*Alaria nasuae* (DC)  
PARAGONIMIDAE  
*Paragonimus rudis* (Panama)

Coati

*Procyon lotor* (Linnaeus)

BRACHYLAEMIDAE  
*Brachylaima virginiana* (VA)  
DICROCOELIIDAE  
*Eurytrema procyonis*  
(CT,GA,MD,NC,NY,TN,TX,VA)  
*Lyperosomum sinuosum* (SC,TE)  
DIPLOSTOMIDAE  
*Fibricola cratera*  
(FL,GA,LA,NC,Que,SC,TX,WY)  
*F. texensis* (GA,TN,TX)  
*Fibricola* spp. (GA)  
*Parallelorchis diglossus* (FL,TN)  
*Pharyngostomoides adenocephala*  
(FL,NC,Ont,TX)  
*P. ovale* (FL)  
*P. procyonis* (FL,GA,NC,Ont,SC,TN,TX,VA)  
*Procyotrema marsupiformis* (MD,NC)

Racoon

ECHINOSTOMATIDAE  
*Echinostoma revolutum* (OH)  
*Euparyphium beaveri* (GA,NC,SC,TN)  
*Stephanoprora spinosa* (GA)

HETEROPHYIDAE  
*Apophallus venustus*  
(Can,GA,NC,Ont,SC,VA)  
*Ascocotyle ampullacea* (NC)  
*A. leighi* (SC)

*A. pachycystis* (FL)  
*Euryhalmis squamula* (GA,NC,TN)  
*Metagonimoides oregonensis*  
(GA,NC,OR,TN,VA)  
*Phagicola diminuta* (NC,SC)

*P. longa* (NC,SC)  
LECITHODENDRIIDAE  
*Paralecithodendrium naviculum* (GA)

MICROPHALLIDAE  
*Carneophallus turgidus* (FL,GA,NC,SC,TX)  
*Gynaecotyla adunca* (GA,NC,SC)  
*Maritreminoides nettae* (GA,MN,NC,SC)  
*Maritreminoides* spp. (NC,SC)  
*Microphallus* spp. (OH)

NANOPHYETIDAE  
*Nanophyetus salmincola* (OR)

OPISTHORCHIDAE  
*Metorchis conjunctus* (VA)  
*Parametorchis complexus* (NC,VA)

PARAGONIMIDAE  
*Paragonimus kellicotti* (GA)  
*P. mexicanus* (Costa Rica)  
*P. rudis* (GA,NC)

PLAGIORCHIIDAE  
*Plagiorchis muris* (TX)

PSILOSTOMIDAE  
*Gyrosoma singularis* (GA,SC)  
*Ribeiroia ondatrae* (FL)

SCHISTOSOMATIDAE  
*Heterobilharzia americana*  
(FL,GA,LA,NC,TX)

TROGLOTREMATIDAE  
*Trogloitrema mustelae* (GA,NC,SC,VA)

*Procyon lotor crassidens* Hollister  
DICROCOELIIDAE  
*Robertdigenea dollfusi* (Costa Rica)

*Procyon lotor hirtus* Nelson and Goldman

MICROPHALLIDAE  
*Microphallus* spp. (Sask)  
PLAGIORCHIIDAE  
*Plagiorchis elegans* (Sask)  
DIPLOSTOMIDAE  
*Alaria marciniae* (Sask)  
*Pharyngostomoides adenocephala* (Sask)

*Procyon lotor litoreus* Nelson and Goldman

MICROPHALLIDAE  
*Carneophallus turgidus* (GA)

*Procyon lotor lotor* (Linnaeus)

DICROCOELIIDAE  
*Eurytrema procyonis* (TX)

DIPLOSTOMIDAE  
*Fibricola cratera* (MI,WI)  
*F. texensis* (TX)

*Pharyngostomoides ovale* (MI)  
*P. procyonis* (NC,TX)

*Procyotrema marsupiformis* (NC)  
HETEROPHYIDAE

*Euryhalmis monorchis* (MI)  
*Metagonimoides oregonensis* (OH)

LECITHODENDRIIDAE  
*Paralecithodendrium naviculum* (OH)

PARAGONIMIDAE  
*Paragonimus* spp. (MI)

*Procyon lotor pacificus* Merriam

SYN.: *Procyon psora pacifica* Merriam

HETEROPHYIDAE

*Metagonimoides oregonensis* (OR)

NANOPHYETIDAE

*Nanophyetus salmincola* (WA)

*Procyon lotor solutus* Nelson and Goldman

DICROCOELIIDAE

*Lyperosomum sinuosum* (SC)

DIPLOSTOMIDAE

*Fibricola texensis* (SC)

*Pharyngostomoides procyonis* (SC)

HETEROPHYIDAE

*Ascocotyle leighi* (SC)

*Phagicola diminuta* (SC)

*P. longa* (SC)

MICROPHALLIDAE

*Carneophallus turgidus* (SC)

*Gynaecotyla adunca* (SC)

*Maritreminoides* spp. (SC)

FAMILY URSIDAE

*Ursus americanus* Pallas Black bear

DIPLOSTOMIDAE

*Alaria americana* (Ont)

*Pharyngostomoides procyonis* (FL)

*Ursus arctos* Linnaeus Big brown bear

ECHINOSTOMATIDAE

*Echinostoma revolutum* (MT,WY)

ORDER CETACEA

FAMILY BALAENOPTERIDAE

*Balaenoptera borealis* Lesson Sei whale

CAMPULIDAE

*Lecithodesmus spinosus* (BC)

NOTOCOTYLIDAE

*Ogmogaster antarctica* (BC)

*O. plicatus* (BC)

*Balaenoptera physalus* (Linnaeus) Fin whale or

CAMPULIDAE Fin-backed whale

*Lecithodesmus goliath* (BC)

NOTOCOTYLIDAE

*Ogmogaster antarctica* (CA)

*O. plicatus* (BC,CA)

*O. trilineatus* (CA)

*Balaenoptera* sp.

NOTOCOYTLIDAE

*Ogmogaster plicatus* (CA)

FAMILY DELPHINIDAE

*Delphinus delphis* Linnaeus Common dolphin

SYN.: *Delphinus bairdi* Dall

CAMPULIDAE

*Campula palliata* (Costa Rica)

*C. rochebruni* (CA)

*Campulidae* gen. spp. (CA)

NASITREMATIDAE

*Nasitrema delphini* (CA)

*N. globicephalae* (CA)

*N. stenosoma* (CA)

*Nasitrema* spp. (CA)

*Globicephala melaena* (Trail) Long-finned

CAMPULIDAE

*Orthoplanchnus arcticus* (Nfld) pilot whale

*Globicephala sieboldii* Gray Short-finned

*Digenea* gen. spp. (CA) pilot whale

*Lagenorhynchus obliquidens* Gill Pacific

CAMPULIDAE

*Zalophotrema* spp. (CA) white-sided dolphin

NASITREMATIDAE

*Nasitrema globicephalae* (CA)

*Nasitrema* spp. (CA)

*Lissodelphis borealis* (Peale) Northern right-

NASITREMATIDAE

*Nasitrema globicephalae* (CA) whale dolphin

*Nasitrema* spp. (CA)

*Phocoena phocoena* (Linnaeus) Harbor porpoise

SYN.: *Phocaena vomerina* (Gill)

CAMPULIDAE

*Campula oblongata* (Nfld,OR,WA)

*Hadwenius mironovus* (OR)

*H. nipponicus* (OR,WA)

*Phocoenoides dalli* (True) Dall's porpoise

CAMPULIDAE

*Campula oblongata* (CA)

NASITREMATIDAE

*Nasitrema dalli* (CA)

*Nasitrema* spp. (CA)

*Steno bredanensis* Lesson Rough-toothed dolphin

CAMPULIDAE

*Campula palliata* (FL)

*Snythesium tursionis* (FL)

HETEROPHYIDAE

*Pholeter gastrophilus* (FL)

*Tursiops gillii* Dall Gill's bottle-nosed dolphin

HETEROPHYIDAE

*Pholeter gastrophilus* (unspecified)



*Tursiops nesarnack* Bonnaterre Lacepede's  
SYN.: *Tursiops* bottle-nosed dolphin  
*truncatus* (Montagu)

CAMPULIDAE

*Campula palliata* (FL)

*Zalophotrema hepaticum* (CA)

HETEROPHYIDAE

*Pholeter gastrophilus* (FL)

NASITREMATIDAE

*Nasitremitidae* gen. spp. (unspecified)

UNIDENTIFIED DIGENEA

*Braunina cordiformis* (CA,FL)

FAMILY ESCHRICHTIDAE

*Eschrichtius gibbosus* (Erxleben) Gray whale

SYN.: *Eschrichtius robustus* (Lilljeborg)

CAMPULIDAE

*Lecithodesmus goliath* (CA)

NOTOCOTYLIDAE

*Ogmogaster antarctica* (CA)

*O. pentalineatus* (AL,CA)

FAMILY MONODONTIDAE

*Delphinapterus leucas* (Pallas) White whale

CAMPULIDAE

*Hadwenius seymouri* (AK)

ORDER CHIROPTERA

FAMILY EMBALLONURIDAE

*Balantiopteryx plicata* Peters Peter's bat

SYN.: *Balantiopteryx ochoterenai* Martinez  
and Villa

LECITHODENDRIIDAE

*Paralecithodendrium naviculum* (Mexico)

FAMILY MOLOSSIDAE

*Tadarida brasiliensis* Geoffroy Brazilian free-  
DICROCOELIIDAE tailed bat

*Dicrocoelium rileyi* (TX)

LECITHODENDRIIDAE

*Ochoterenatrema labda* (Mexico,TX)

*Paralecithodendrium scabrum* (Mexico)

PLAGIORCHIIDAE

*Plagiorchis vespertilionis* (Mexico)

UROTREMATIDAE

*Urotrema scabridum* (Mexico)

TREMATODA GEN. SPP.

Trematoda spp. (TX)

*Tadarida brasiliensis cynocephala* (Le Conte)

SYN.: *Tadarida cynocephala* (Le Conte)

ALLASSOGONOPORIDAE

*Allassogonoporus marginalis* (LA)

DICROCOELIIDAE

*Conspicuum icteridorum* (LA)

*Dicrocoelium rileyi* (KS,LA,OK)

LECITHODENDRIIDAE

*Limatulum oklahomensis* (KS,OK)

*Ochoterenatrema labda* (LA)

*Paralecithodendrium swansoni* (LA)

PLAGIORCHIIDAE

*Plagiorchis vespertilionis* (LA)

UROTREMATIDAE

*Urotrema scabridum* (LA)

*Tadarida brasiliensis mexicana* (Saussure)

DICROCOELIIDAE

*Conspicuum icteridorum* (TX)

*Dicrocoelium rileyi* (NM,OK,TX)

*Platynosomum beltrani* (Mexico)

LECITHODENDRIIDAE

*Acanthatrium nycteridis* (TX)

*Limatulum oklahomensis* (TX)

*Ochoterenatrema labda* (NM,TX)

*Paralecithodendrium carlsbadensis* (NM)

*Tremajoannes buckleyi* (NM)

PLAGIORCHIIDAE

*Plagiorchis vespertilionis* (TX)

UROTREMATIDAE

*Urotrema scabridum* (TX)

FAMILY NATALIDAE

*Natalus stramineus mexicanus* Miller Mexican  
funnel-eared bat

SYN.: *Natalus mexicanus* Miller

LECITHODENDRIIDAE

*Limatulum limatulum* (Mexico)

*Ochoterenatrema labda* (Mexico)

*Paralecithodendrium emollidum* (Mexico)

PLAGIORCHIIDAE

*Plagiorchis muris* (Mexico)

UROTREMATIDAE

*Urotrema scabridum* (Mexico)

FAMILY PHYLLOSTOMATIDAE

*Aello megalophylla* (Peters) Peter's ghost-faced bat

SYN.: *Mormoops megalophylla* Peters

SYN.: *Mormoops megalophylla senicula* Rehn

PLAGIORCHIIDAE

*Plagiorchis* spp. (TX)

*Micronycteris hirsuta* (Peters) Hairy large-  
ANENTEROTREMATIDAE eared bat

*Anenterotrema freitasi* (Costa Rica)

LECITHODENDRIIDAE

*Castroia silvai* (Costa Rica)

*Limatulum istmicus* (Costa Rica)

MICROPHALLIDAE

- Pseudomaritrema beolopolskoi* (Costa Rica)
- Pteronotus parnellii rubiginosus* (Wagner)  
 SYN.: *Chilonycteris rubiginosus* Parnell's  
 Wagner mustached bat  
 LECITHODENDRIIDAE  
*Maxbraunium tubiporum* (Mexico)
- FAMILY VESPERTILIONIDAE
- Eptesicus fuscus* (Beauvois) Big brown bat  
 ALLASSOGONOPORIDAE  
*Allassogonoporus marginalis* (WI)  
*A. vespertilionis* (OR)  
 DICROCOELIIDAE  
*Dicrocoelium rileyi* (IA)  
 LECITHODENDRIIDAE  
*Acanthatrium alicatai* (DC)  
*A. eptesici* (BC,DC,MN,WI)  
*A. microcanthum* (MN,WI)  
*A. oligacanthum* (WI)  
*A. pipistrelli* (IA,MN,WI)  
*Glyptoporus noctophilus* (MN)  
*Ochoterenatrema breckenridgei* (MN)  
*O. diminutum* (WI)  
*O. travassosi* (MN,WI)  
*Paralecithodendrium chilostomum* (WI)  
*P. macnabi* (BC,IN,MN,WI)  
*P. naviculum* (MN,WI)  
*P. nokomis* (WI)  
*P. swansoni* (IA,MN,WI)  
*P. transversum* (IA,MN,WI)  
*P. vespertilionis* (IA)  
*P. volaticum* (IA)  
*Prosthodendrium* spp. (BC,IA)  
 PLAGIORCHIIDAE  
*Plagiorchis micracanthos* (MN)  
*P. vespertilionis* (BC,IA)  
*Plagiorchis* spp. (BC)  
 TREMATODA GEN. SPP.  
*Trematoda* spp. (IN)
- Eptesicus fuscus fuscus* (Beauvois)  
 LECITHODENDRIIDAE  
*Acanthatrium amphidymum* (VA)  
*A. beuschleini* (VA)  
*A. eptesici* (VA)  
*A. lunatum* (KY,OH)  
*A. nycteridis* (VA)  
*A. oligacanthum* (VA)  
*A. pipistrelli* (KY,OH)  
*Lecithodendrium* spp. (VA)  
*Prosthodendrium longiforme* (KS)  
 PLAGIORCHIIDAE  
*Plagiorchis vespertilionis* (KS)
- Eptesicus nilssoni* (Keyserling and Blasius)  
 UROTREMATIDAE  
*Urotrema scabridum* (Costa Rica)
- Lasionycteris noctivagans* (Le Conte) Silver-haired bat  
 LECITHODENDRIIDAE  
*Acanthatrium nycteridis* (BC)  
*Paralecithodendrium macnabi* (BC)  
*Prosthodendrium* spp. (BC)  
 PLAGIORCHIIDAE  
*Plagiorchis vespertilionis* (BC)  
*Plagiorchis* spp. (BC)
- Myotis californicus* (Audubon and Bachman) California myotis  
 LECITHODENDRIIDAE  
*Paralecithodendrium chilostomum* (NE)  
 PLAGIORCHIIDAE  
*Plagiorchis micracanthos* (NE)  
*P. vespertilionis* (BC)
- Myotis californicus caurinus* Miller  
 ALLASSOGONOPORIDAE  
*Allassogonoporus vespertilionis* (OR)  
 LECITHODENDRIIDAE  
*Acanthatrium oregonense* (OR)  
*Limatum gastroides* (OR)  
*Lecithodendriidae* gen. spp. (OR)
- Myotis evotis evotis* (Allen) Long-eared myotis  
 LECITHODENDRIIDAE  
*Acanthatrium oregonense* (OR)
- Myotis grisescens* Howell Gray myotis  
 ALLASSOGONOPORIDAE  
*Allassogonoporus marginalis* (KS)  
 LECITHODENDRIIDAE  
*Acanthatrium* spp. (KS)  
*Limatum oklahomensis* (KS)  
*Paralecithodendrium swansoni* (KS)  
 PLAGIORCHIIDAE  
*Plagiorchis micracanthos* (KS)  
 UROTREMATIDAE  
*Urotrema scabridum* (KS)
- Myotis keenii* (Merriam) Keen's myotis  
 LECITHODENDRIIDAE  
*Limatum gastroides* (WI)  
*Ototrema schildti* (WI)  
*Paralecithodendrium transversum* (IA,WI)  
 PLAGIORCHIIDAE  
*Plagiorchis vespertilionis* (IA,WI)  
 UROTREMATIDAE  
*Urotrema scabridum* (WI)  
 TREMATODA GEN. SPP.  
*Trematoda* spp. (IN)
- Myotis lucifugus* (Le Conte) Little brown myotis  
 ALLASSOGONOPORIDAE  
*Allassogonoporus marginalis* (IA,WI)  
*A. vespertilionis* (OR)  
*Myotis asymmetrica* (MN)

- LECITHODENDRIIDAE  
*Acanthatrium beuschleini* (VA)  
*A. oregonense* (OR)  
*A. umbraculatum* (OH)  
*Glyptoporus noctophilus* (MN)  
*Gyrabascus brevigastrus* (WI)  
*Lecithodendrium anticum* (unspecified)  
*L. posticum* (unspecified)  
*Limatum gastroides* (IA,MN,WI)  
*L. mcdanieli* (WI)  
*Limatum* spp. (WI)  
*Ototrema schildti* (WI)  
*Paralecithodendrium swansoni*  
 (BC,IA,MN,WI)  
*P. macnabi* (AK)  
*P. transversum* (WI)  
*Prosthodendrium alaskensis* (AK)  
*Prosthodendrium* spp. (BC)  
 PLAGIORCHIIDAE  
*Plagiorchis micracanthos* (MN,NM)  
*P. vespertilionis* (BC,IA,WI)  
*Plagiorchis* spp. (AK)  
 UROTREMATIDAE  
*Urotrema scabridum* (IA,WI)  
 TREMATODA GEN. SPP.  
*Trematoda* spp. (IN)
- Myotis lucifugus alascensis* Miller  
 PLAGIORCHIIDAE  
*Plagiorchis vespertilionis parorchis* (WA)
- Myotis lucifugus lucifugus* (Le Conte)  
 LECITHODENDRIIDAE  
*Acanthatrium nycteridis* (MA)  
*Limatum gastroides* (MA)  
 PLAGIORCHIIDAE  
*Plagiorchis vespertilionis* (NE)
- Myotis lucifugus occultus* Hollister  
 PLAGIORCHIIDAE  
*Plagiorchis micracanthos* (NM)
- Myotis nigricans nigricans* (Schinz) Black myotis  
 LECITHODENDRIIDAE  
*Limatum costarricensis* (Panama)  
*Ochoterenatrema diminutum* (Panama)  
*O. labda* (Panama)
- Myotis sodalis* Miller and Allen Indiana myotis  
 ALLASSOGONOPORIDAE  
*Allassogonoporus marginalis* (KY)  
 LECITHODENDRIIDAE  
*Acanthatrium pipistrelli* (KY)  
*Limatum gastroides* (KY)  
*Paralecithodendrium naviculum* (KY)  
*P. transversum* (KY)  
 PLAGIORCHIIDAE  
*Plagiorchis micracanthos* (KY)
- Myotis velifer incautus* (Allen)  
 ALLASSOGONOPORIDAE  
*Allassogonoporus marginalis* (KS)  
 DICROCOELIIDAE  
*Dicrocoelium rileyi* (KS)  
 TREMATODA GEN. SPP.  
*Trematoda* spp. (TX)
- Myotis volans longicrus* (True)  
 LECITHODENDRIIDAE  
*Paralecithodendrium naviculum* (BC)  
 PLAGIORCHIIDAE  
*Plagiorchis vespertilionis* (BC)
- Nycteris borealis* (Mueller) Red Bat  
 SYN.: *Lasiurus borealis* (Mueller)  
 DICROCOELIIDAE  
*Dicrocoelium lasiuri* (DC)  
 LECITHODENDRIIDAE  
*Acanthatrium eptesici* (IA)  
*A. pipistrelli* (IA)  
*Maxbraunium tubiporum* (Mexico)  
*Paralecithodendrium transversum* (IA)  
*P. nokomis* (IA)  
*P. swansoni* (IA)  
*Prosthodendrium eptesici* (IA)  
*P. lunatum* (IA)  
*Prosthodendrium* spp. (IA)
- Nycteris borealis borealis* (Mueller)  
 SYN.: *Lasiurus borealis borealis* (Mueller)  
 SYN.: *Vespertilio lasiurus* Schreber  
 LECITHODENDRIIDAE  
*Paralecithodendrium transversum* (TN)  
*Acanthatrium nycteridis* (IL)  
*Maxbraunium tubiporum* (Mexico)
- Nycteris cinerea* (Palisot de Beauvois) Hoary bat  
 SYN.: *Lasiurus cinereus* (Palisot de Beauvois)  
 LECITHODENDRIIDAE  
*Limatum gastroides* (BC)  
*Paralecithodendrium macnabi* (Mexico)  
*P. scabrum* (Mexico)  
*Prosthodendrium silvai* (BC)  
*Prosthodendrium* spp. (BC)  
 PLAGIORCHIIDAE  
*Plagiorchis vespertilionis* (BC,IA)
- Nycteris intermedia floridana* (Miller) Northern  
 SYN.: *Dasypterus floridanus* Miller yellow bat  
 LECITHODENDRIIDAE  
*Lecithodendrium* spp. (FL)  
*Paralecithodendrium naviculum* (MS)  
*Prosthodendrium singularium* (MS)
- Nycticeius humeralis* (Rafinesque) Evening bat  
 DICROCOELIIDAE

*Dicrocoelium rileyi* (TX)  
LECITHODENDRIIDAE  
*Ochoterenatrema diminutum* (IA, TX)  
PLAGIORCHIIDAE  
*Plagiorchis* spp. (TN)  
UROTREMATIDAE  
*Urotrema shillingeri* (TX)

*Pipistrellus hesperus* (Allen) Western pipistrelle  
PLAGIORCHIIDAE  
*Plagiorchis micracanthos* (NV)

*Pipistrellus subflavus* (Cuvier) Eastern pipistrelle  
LECITHODENDRIIDAE  
*Acanthatrium pipistrelli* (MN)  
TREMATODA GEN. SPP.  
Trematoda spp. (IN)

*Pipistrellus subflavus subflavus* (Cuvier)  
PLAGIORCHIIDAE  
*Plagiorchis micracanthos* (NE)

*Pipistrellus* sp.  
LECITHODENDRIIDAE  
*Ochoterenatrema breckenridgei* (MN)

#### UNIDENTIFIED CHIROPTERA

*Eptesicus propinguus*  
UROTREMATIDAE  
*Urotrema scabridum* (Costa Rica)

Red bat  
DICROCOELIIDAE  
*Dicrocoelium lasiuri* (unspecified)

### ORDER EDENTATA

#### FAMILY DASYPODIDAE

*Dasybus novemcinctus* Peters      Nine-banded  
BRACHYLAEMIDAE      armadillo  
*Brachylaema virginiana* (TX)

### ORDER INSECTIVORA

#### FAMILY SORICIDAE

*Blarina brevicauda* (Say)      Short-tailed shrew  
BRACHYLAEMIDAE  
*Brachylaima dolichodirus* (NC, TN)  
*B. ovatus* (IA)  
*B. rhomboideus* (CT, IA)  
*B. thompsoni* (CT, IA, MI, NC)  
*Panopistus pricei* (CT, IL, IA, MI, NC)  
DICROCOELIIDAE  
*Brachylecithum* spp. (NC)

*Blarina brevicauda brevicauda* (Say)  
BRACHYLAEMIDAE  
*Brachylaima thompsoni* (WI)  
*Panopistus pricei* (WI)  
*Blarina brevicauda kirtlandi* Bole and Moulthrop  
BRACHYLAEMIDAE  
*Brachylaima thompsoni* (MI)  
*Panopistus pricei* (MI)

*Sorex bendirii palmeri* Merriam      Pacific  
HETEROPHYIDAE      water shrew  
*Euryhalmis pacificus* (OR)  
TROGLOTREMATIDAE  
*Xiphidiotrema lockerae* (MT, OR)

*Sorex cinereus* Kerr      Masked shrew  
PLAGIORCHIIDAE  
*Neoglyphe locellus* (CO)  
*N. soricis* (MT)

*Sorex cinereus cinereus* Kerr  
BRACHYLAEMIDAE  
*Brachylaima thompsoni* (WI)

*Sorex palustris* Richardson      Water shrew  
PLAGIORCHIIDAE  
*Neoglyphe locellus* (CO)  
*N. soricis* (MT)

*Sorex palustris navigator* (Baird)  
TROGLOTREMATIDAE  
*Xiphidiotrema lockerae* (MT, OR)

*Sorex vagrans* Baird      Vagrant shrew  
PLAGIORCHIIDAE  
*Neoglyphe locellus* (CO)  
*N. soricis* (MT)

*Sorex vagrans permiliensis* Jackson  
SYN.: *Sorex obscurus permiliensis* Jackson  
TROGLOTREMATIDAE  
*Xiphidiotrema lockerae* (MT, OR)

#### UNIDENTIFIED SORICIDAE

Shrew  
BRACHYLAEMIDAE  
*Brachylaima thompsoni* (MI)

#### FAMILY TALPIDAE

*Neurotrichus gibbsii* (Baird) Shrew-mole  
MICROPHALLIDAE  
*Microphallus aspalacis* (OR)

*Scalopus aquaticus* (Linnaeus)  
BRACHYLAEMIDAE  
*Itygonimus scalopi* (SC)

## ORDER LAGOMORPHA

### FAMILY LEPORIDAE

*Lepus americanus* Erxleben      Snowshoe rabbit

#### FASCIOLIDAE

*Fasciola hepatica* (WA)

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (DC,VA)

*Lepus americanus phaeonotus* Allen

#### ECHINOSTOMATIDAE

*Euparyphium melis* (MN)

*Lepus americanus struthopus* Bangs

#### DICROCOELIIDAE

*Dicrocoelium dendriticum* (Nfld)

*Lepus californicus merriami* (Mearns)      Black-

FASCIOLIDAE      tailed jack rabbit

*Fasciola hepatica* (TX)

*Lepus californicus texianus* Waterhouse

SYN.: *Lepus texianus* Waterhouse

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (TX)

*Sylvilagus aquaticus* (Bachman)      Swamp rabbit

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (LA)

#### SCHISTOSOMATIDAE

*Heterobilharzia americana* (LA)

*Sylvilagus aquaticus aquaticus* (Bachman)

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (MS,TN)

*Sylvilagus floridanus* Allen      Eastern cottontail

#### FASCIOLIDAE

*Fasciola hepatica* (TX)

#### HASSTILESIIIDAE

*H. tricolor*

(AL,AR,KS,KY,MD,MS,NC,PA,SC,VA)

*Sylvilagus floridanus alacer* (Bangs)

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (TX)

*Sylvilagus floridanus mallurus* (Thomas)

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (NC,NY)

*Sylvilagus floridanus mearnsii* (Allen)

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (IA,MI,MN,NY,WI)

*Sylvilagus nuttallii* (Bachman) Nuttall's cottontail

SYN.: *Lepus sylvaticus* Bachman

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (DC,PA,VA)

*Sylvilagus palustris* Bachman      Marsh rabbit

#### HASSTILESIIIDAE

*H. tricolor* (FL,NC)

#### NOTOCOTYLIDAE

*Nudacotyle novicia* (NC)

*Sylvilagus palustris palustris* (Bachman)

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (GA)

*Sylvilagus transitionalis* (Bangs)      New England  
cottontail

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (CT)

### UNIDENTIFIED LEPORIDAE

Cottontail

#### HASSTILESIIIDAE

*Hasstilesia tricolor*

(AL,CT,KS,MD,MO,NJ,NY,PA,RI,VA,WV)

*Hasstilesia* spp. (NY)

Jack rabbit

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (TX)

Rabbit

#### FASCIOLIDAE

*Fasciola hepatica* (LA)

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (DC,MD,MS,NY,VA)

#### SCHISTOSOMATIDAE

*Heterobilharzia americana* (LA)

Varying hare

#### HASSTILESIIIDAE

*Hasstilesia tricolor* (NY)

### FAMILY OCHOTONIDAE

*Ochotona collaris* (Nelson)      Collared pika

#### BRACHYLAEMIDAE

*Brachylaima* spp. (AK)

## ORDER PINNIPEDIA

### FAMILY OTARIIDAE

*Callorhinus ursinus* (Linnaeus)      Northern  
fur seal

#### HETEROPHYIDAE

*Cryptocotyle jejuna* (AK)

*Phocitrema fusiforme* (AK)

*Pricitrema zalophi* (AK)

*Eumetopias jubatus* (Schreber) Northern sea lion

#### CAMPULIDAE

*Zalophotrema hepaticum* (OR)

#### HETEROPHYIDAE

*Pricitrema eumetopii* (AK)

*P. zalophi* (OR)

*Zalophus californianus* (Lesson) California  
 sea lion  
 CAMPULIDAE  
*Zalophotrema hepaticum* (CA,NY,OR)  
*Zalophotrema* spp. (CA)  
 HETEROPHYIDAE  
*Pricetrema zalophi* (OR)  
 NANOPHYETIDAE  
*Nanophyetus salmincola* (OR)  
 UNIDENTIFIED DIGENEA  
 Digenea gen. spp. (unspecified)

FAMILY PHOCIDAE

*Erignathus barbatus* (Erxleben) Bearded seal  
 CAMPULIDAE  
*Orthosplanchnus fraterculus* (AK)  
*Campulidae* gen. spp. (AK)  
 HETEROPHYIDAE  
*Pricetrema* spp. (AK)  
*Mirounga angustirostris* (Gill) Northern  
 elephant seal  
 HETEROPHYIDAE  
*Pricetrema zalophi* (OR)  
*Phoca hispida* Schreber  
 CAMPULIDAE  
*Orthosplanchnus arcticus* (NWT)

*Phoca vitulina* Linnaeus Harbor seal  
 HETEROPHYIDAE  
*Apophallus venustus* (GA)  
*Cotylophallus similis* (DC)  
*Cryptocotyle lingua* (DC)  
*Pricetrema zalophi* (OR)  
*Phoca vitulina largha* Pallas  
 SYN.: *Phoca largha* Pallas  
 HETEROPHYIDAE  
*Phocitrema fusiforme* (AK)  
*Phoca vitulina richardsii* (Gray)  
 HETEROPHYIDAE  
*Pricetrema phocae* (AK)

ORDER RODENTIA

FAMILY CAPROMYIDAE

*Myocastor coypus* (Molina) Nutria  
 SCHISTOSOMATIDAE  
*Heterobilharzia americana* (LA)  
*Myocastor coypus bonariensis* (Geoffroy Saint  
 Hilaire)  
 ECHINOSTOMATIDAE  
*Echinostoma revolutum* (LA)  
 SCHISTOSOMATIDAE  
*Heterobilharzia* spp. (LA)  
*Schistosomatidae* gen. spp. (LA)

FAMILY CASTORIDAE

*Castor canadensis* Kuhl Beaver  
 ECHINOSTOMATIDAE  
*Echinostoma revolutum* (NS)  
 FASCIOLIDAE  
*Fasciola hepatica* (WA)  
 PARAMPHISTOMIDAE  
*Stichorchis subtriquetrus*  
 (AK,Alta,CO,MN,Nfld,NS,Ont,OR,Que,TX)  
 PSILOSTOMIDAE  
*Stephanoproraoides lawi* (MN,NS,Ont)  
 SCHISTOSOMATIDAE  
*Heterobilharzia americana* (TX)  
*Castor canadensis carolinensis* Rhoads  
 PARAMPHISTOMIDAE  
*Stichorchis subtriquetrus* (LA)  
*Castor canadensis leucodontus* Gray  
 PARAMPHISTOMIDAE  
*Stichorchis subtriquetrus* (BC)  
*Castor canadensis mexicanus* Bailey  
 PARAMPHISTOMIDAE  
*Stichorchis subtriquetrus* (Mexico)

FAMILY ERETHIZONTIDAE

*Erethizon dorsatum* (Linnaeus) Porcupine  
 SCHISTOSOMATIDAE  
*Schistosomatium douthitti* (Ont)

FAMILY GEOMYIDAE

*Thomomys talpoides* (Richardson) Northern  
 NOTOCOTYLIDAE pocket gopher  
*Quinqueserialis hassalli* (WY)

FAMILY HETEROMYIDAE

*Liomys pictus pictus* (Thomas) Painted spiny  
 BRACHYLAEMIDAE pocket mouse  
*Brachylaema bravoae* (Mexico)

FAMILY MURIDAE

*Clethrionomys gapperi* (Vigors) Gapper's red-  
 PLAGIORCHIIDAE backed vole  
*Plagiorchis* spp. (Nfld,Que)  
*Clethrionomys rutilus dawsoni* (Merriam)  
 PLAGIORCHIIDAE Northern red-  
*Plagiorchis* spp. (AK) backed mouse  
*Dicrostonyx groenlandicus rubricatus*  
 (Richardson)  
 BRACHYLAEMIDAE Collared lemming  
*Brachylaima rauschi* (AK)

- Microtus longicaudus baileyi* Goldman  
BRACHYLAEMIDAE Long-tailed vole  
*Scaphiostomum microti* (CO)
- Microtus montanus fusus* Hall Montane vole  
NOTOCOTYLIDAE  
*Quinqueserialis hassalli* (CO)
- Microtus montanus nanus* (Merriam)  
SYN.: *Microtus montanus caryi* Bailey  
NOTOCOTYLIDAE  
*Quinqueserialis hassalli* (WY)
- Microtus miurus muriei* Nelson Singing vole  
SYN.: *Microtus miurus paneaki* Rausch  
BRACHYLAEMIDAE  
*Brachylaima rauschi* (AK)
- Microtus oconomus macfarlani* Merriam  
NOTOCOTYLIDAE Tundra vole  
*Quinqueserialis quinqueserialis* (AK)
- Microtus pennsylvanicus* (Ord) Meadow vole  
NOTOCOTYLIDAE  
*Quinqueserialis quinqueserialis*  
(Nfld,NY,Que)  
PLAGIORCHIIDAE  
*Plagiorchis muris* (Nfld,Que)  
SCHISTOSOMATIDAE  
*Schistosomatium douthitti* (Man,OH)
- Microtus pennsylvanicus drummondii* (Audubon  
and Bachman)  
NOTOCOTYLIDAE  
*Quinqueserialis quinqueserialis* (AK)
- Microtus pennsylvanicus modestus* (Baird)  
NOTOCOTYLIDAE  
*Quinqueserialis hassalli* (CO,NM,WY)
- Microtus pennsylvanicus pennsylvanicus* (Ord)  
BRACHYLAEMIDAE  
*Brachylaima thompsoni* (MI,WI)  
NOTOCOTYLIDAE  
*Notocotylus hassalli* (MD,VA)  
*Nudacotyle novicia* (IA)  
*Quinqueserialis hassalli* (MD,MN,VA,WI)  
PROSTHOGONIMIDAE  
*Mediogonimus ovilacus* (MI)  
SCHISTOSOMATIDAE  
*Schistosomatium douthitti* (MI)
- Microtus pennsylvanicus terraenovae* Bangs  
BRACHYLAEMIDAE  
*Brachylaima* spp. (Nfld)
- Mus musculus* Ruddy House mouse  
BRACHYLAEMIDAE  
*Brachylaema peromysci* (KY)  
DIPLOSTOMIDAE  
*Alaria americana* (Ont)  
*A. arisaemoides* (Ont)
- Neofiber alleni nigrescens* Howell Round-  
NOTOCOTYLIDAE tailed muskrat  
*Quinqueserialis floridensis* (FL)
- Ondatra zibethicus* (Linnaeus) Muskrat  
ALLASSOGONOPORIDAE  
*Allassogonoporus marginalis* (MI)  
DIPLOSTOMIDAE  
*Alaria craterum* (Ont)  
*A. mustelae* (AK,Man,Ont)  
*Fibricola cratera* (NE)  
ECHINOSTOMATIDAE  
*Echinochasmus schwartzi* (MD,Ont,TX)  
*Echinoparyphium contiguum*  
(BC,KS,MI,NE,Ont)  
*Echinoparyphium* spp. (NB)  
*Echinostoma callawayensis* (AK,NE,Ont)  
*E. echinatum* (PA)  
*E. revolutum*  
(BC,IL,KS,MA,Man,MD,MI,NB,NE,OH,Ont,  
OR,PA,Que)  
*Echinostoma* spp. (Alta)  
*Echinostomatidae* gen. spp. (NY)  
HETEROPHYIDAE  
*Euryhalmis pacificus* (OR)  
*Phagicola diminuta* (TX)  
LEUCOCHLORIDIOMORPHIDAE  
*Ptyalincola ondatrae* (MI)  
NOTOCOTYLIDAE  
*Catartropis fimbriata* (NE)  
*Monostomum affinis* (PA)  
*Notocotylus filamentis* (AK,IL,Man,MI,Ont)  
*N. urbanensis* (BC,MI,NB,Ont,PA,)  
*Notocotylus* spp. (OR)  
*Nudacotyle novicia* (IA,MI,MN,NB,Ont,TX)  
*Paramonostomum pseudalveatum* (MD)  
*Quinqueserialis quinqueserialis*  
(AK,BC,IA,IL,Man,MD,MI,MT,NB,NE,OH,O  
nt,OR,PA)  
*Q. zibethicus* (Que)  
OPISTHORCHIIDAE  
*Metorchis conjunctus* (PA)  
*Opisthorchis tonkae* (MN,NB)  
*Parametorchis* spp. (MD)  
PARAGONIMIDAE  
*Paragonimus kellicotti* (KY)  
*Paragonimus* spp. (MI)  
PARAMPHISTOMIDAE  
*Stichorchis subtriquetrum* (PA)  
*Wardius zibethicus*  
(Man,MI,NB,NE,OH,Ont,PA)  
PLAGIORCHIIDAE  
*Plagiorchis noblei* (Man)  
*P. proximus*  
(AK,BC,MA,MI,NB,NE,OH,Ont,PA)  
PSILOSTOMIDAE

- Psilostomum ondatrae* (Ont)  
 SCHISTOSOMATIDAE  
*Schistosomatium douthitti* (MI,Man,MN,NB)  
 UROTREMATIDAE  
*Urotrema shillingeri* (MD)  
*Ondatra zibethicus macrondon* (Linnaeus)  
 ECHINOSTOMATIDAE  
*Echinochasmus schwartzi* (MD)  
 NOTOCOTYLIDAE  
*Nudacotyle novicia* (MD)  
 UROTREMATIDAE  
*Urotrema shillingeri* (MD)  
*Ondatra zibethicus obscurus* (Bangs)  
 DIPLOSTOMIDAE  
*Diplostomum mergi* (Nfld)  
 ECHINOSTOMATIDAE  
*Echinoparyphium contiguum* (Nfld)  
*E. recurvatum* (Nfld)  
*Echinostoma revolutum* (Nfld)  
 NOTOCOTYLIDAE  
*Quinqueserialis quinqueserialis* (Nfld)  
 PARAMPHISTOMIDAE  
*Paramphistomidae* gen. spp. (Nfld)  
 PLAGIORCHIIDAE  
*Plagiorchis proximus* (Ont)  
*Ondatra zibethicus occipitalis* (Elliot)  
 ECHINOSTOMATIDAE  
*Echinostoma revolutum* (OR)  
 NOTOCOTYLIDAE  
*Notocotylus urbanensis* (OR)  
*Ondatra zibethicus osoyoosensis* (Lord)  
 DIPLOSTOMIDAE  
*Fibricola cratera* (UT)  
 ECHINOSTOMATIDAE  
*Echinostoma revolutum* (UT)  
*Echinostoma* spp. (CO)  
 NOTOCOTYLIDAE  
*Notocotylus urbanensis* (UT)  
*Paramonostomum pseudalveatum* (UT)  
*Quinqueserialis quinqueserialis* (CO,UT)  
 PLAGIORCHIIDAE  
*Plagiorchis proximus* (CO,UT)  
 PSILOSTOMIDAE  
*Psilotrema* spp. (UT)  
*Ondatra zibethicus rivalicicus* Bangs  
 SYN.: *Ondatra rivalicia* Bangs  
 ECHINOSTOMATIDAE  
*Echinochasmus schwartzi* (LA)  
 HETEROPHYIDAE  
*Phagicola nana* (LA)  
 NOTOCOTYLIDAE  
*Nudacotyle novicia* (LA)  
*Paramonostomum pseudalveatum* (LA)  
*Ondatra zibethicus zibethicus*  
 OPISTHORCHIIDAE  
*Amphimerus pseudofelineus* (IL)  
*Opisthorchis tonkae* (NY)
- PARAMPHISTOMIDAE  
*Wardius zibethicus* (IL,MA,MD,NY,OH)  
 PLAGIORCHIIDAE  
*Plagiorchis proximus* (IL,MA,NY,OH,WI)  
 SCHISTOSOMATIDAE  
*Schistosomatium douthitti* (IL,OH)  
*Ondatra zibethicus zibethicus* (Linnaeus)  
 DIPLOSTOMIDAE  
*Fibricola cratera* (IL,OH)  
 ECHINOSTOMATIDAE  
*Echinoparyphium recurvatum* (IL,ME,OH)  
*Echinostoma revolutum*  
 (IL,MD,ME,NY,OH,WI)  
 NOTOCOTYLIDAE  
*Notocotylus filamentus* (ME)  
*N. urbanensis* (NY,OH)  
*Notocotylus* spp. (IL)  
*Nudacotyle novicia* (IL,ME,OH)  
*Quinqueserialis quinqueserialis*  
 (IL,MD,ME,NY,OH,WI)  
 OPISTHORCHIIDAE  
*Amphimerus pseudofelineus* (IL)  
*Opisthorchis tonkae* (NY)  
 PARAMPHISTOMIDAE  
*Wardius zibethicus* (IL,MD,ME,NY,OH)  
 PLAGIORCHIIDAE  
*Plagiorchis proximus* (IL,ME,NY,OH,WI)  
 PROSTHOGONIMIDAE  
*Mediogonimus ovilacus* (OH)  
 SCHISTOSOMATIDAE  
*Schistosomatium douthitti* (IL,OH)
- Oryzomys palustris* (Harlan) Marsh rice rat  
 DICROCOELIIDAE  
*Lyperosomum intermedium* (FL,GA)  
*Zonorchis komareki* (LA)  
 NOTOCOTYLIDAE  
*Catantrophis johnstoni* (FL)
- Peromyscus banderanus banderanus* Allen  
 DICROCOELIIDAE Michoacan deer mouse  
*Dictyonograptus chamelensis* (Mexico)
- Peromyscus gossypinus gossypinus* (Le Conte)  
 BRACHYLAEMIDAE Cotton mouse  
*Scaphiostomum pancreaticum* (GA)  
 DICROCOELIIDAE  
*Eurytrema komareki* (GA)
- Peromyscus guatemalensis guatemalensis*  
 Merriam  
 BRACHYLAEMIDAE Guatemalan  
*Brachylaima chiapensis* (Mexico) deer mouse
- Peromyscus leucopus* (Rafinesque)  
 BRACHYLAEMIDAE White-footed mouse  
*Brachylaima peromysci* (KY,MD)



- B. virginiana* (NC)  
HETEROPHYIDAE  
*Euryhalmis squamula* (WV)  
SCHISTOSOMATIDAE  
*Schistosomatium douthitti* (MI)  
*Peromyscus leucopus leucopus* (Rafinesque)  
BRACHYLAEMIDAE  
*Brachylaima peromysci* (VA)  
*B. thompsoni* (NC)  
DIPLOSTOMIDAE  
*Alaria mustelae* (MI)  
*Peromyscus leucopus noveboracensis* (Fischer)  
BRACHYLAEMIDAE  
*Brachylaima thompsoni* (MI)  
*B. virginiana* (MI)  
DIPLOSTOMIDAE  
*Alaria mustelae* (MI)  
  
*Peromyscus maniculatus* (Wagner)  
BRACHYLAEMIDAE Deer mouse  
*Postharmostomum helicus* (Que)  
DIPLOSTOMIDAE  
*Alaria americana* (Ont)  
*A. arisaemoides* (Ont)  
UNIDENTIFIED DIGENEA  
*Digenea* gen. spp. (Que)  
*Peromyscus maniculatus bairdii* (Hoy and Kennicott)  
DIPLOSTOMIDAE  
*Fibricola cratera* (MI,WI)  
*Peromyscus maniculatus sonoriensis* (Le Conte)  
BRACHYLAEMIDAE  
*Scaphiostomum microti* (UT)  
  
*Rattus norvegicus* (Berkenhout) Norway rat  
NANOPHYETIDAE  
*Nanophyetus salmincola* (OR)  
*Rattus* spp.  
HETEROPHYIDAE  
*Phagicola diminuta* (NY)  
  
*Reithrodontomys humulis* Eastern harvest mouse  
(Audubon and Bachman)  
DICROCOELIIDAE  
*Zonorchis komareki* (GA)  
  
*Sigmodon hispidus* Say and Ord Hispid cotton rat  
OPISTHORCHIIDAE  
*Metorchis conjunctus* (Que)  
PLAGIORCHIIDAE  
*Plagiorchis muris* (TX)  
  
FAMILY SCIURIDAE  
  
*Glaucomys sabrinus* (Shaw) Northern flying squirrel  
PLAGIORCHIIDAE  
*Plagiorchis proximus* (Sask)
- Marmota monax* (Linnaeus) Woodchuck  
NOTOCOTYLIDAE  
*Quinqueserialis hassalli* (WI)  
*Quinqueserialis* spp. (WI)  
*Marmota monax rufescens* Howell  
DICROCOELIIDAE  
*Dicrocoelium dendriticum* (NY)  
  
*Sciurus carolinensis* Gmelin Gray squirrel  
BRACHYLAEMIDAE  
*Brachylaima* spp. (MD,NC)  
NOTOCOTYLIDAE  
*Nudacotyle novicia* (AL)  
*Sciurus carolinensis carolinensis* Gmelin  
NOTOCOTYLIDAE  
*Nudacotyle* spp. (TN)  
  
*Spermophilus franklinii* (Sabine) Franklin's ground squirrel  
DIPLOSTOMIDAE  
*Alaria mustelae* (Sask)  
PLAGIORCHIIDAE  
*Plagiorchis proximus* (Sask)  
  
*Spermophilus richardsonii* (Sabine) Richardson's ground squirrel  
PLAGIORCHIIDAE  
*Plagiorchis proximus* (Man,Sask)  
  
*Spermophilus variegatus utah* Merriam Rock squirrel  
BRACHYLAEMIDAE  
*Scaphiostomum microti* (UT)  
  
*Tamias striatus* (Linnaeus) Eastern chipmunk  
BRACHYLAEMIDAE  
*Scaphiostomum pancreaticum* (Ont,WI)  
*Tamias striatus lysteri* (Richardson)  
BRACHYLAEMIDAE  
*Postharmostomum helicus* (MI)  
*P. noveboracensis* (NY)  
*Scaphiostomum pancreaticum* (MI)  
  
*Tamiasciurus hudsonicus* (Erxleben) Red squirrel  
DIPLOSTOMIDAE  
*Fibricola cratera* (MI)  
PLAGIORCHIIDAE  
*Plagiorchis proximus* (Sask)  
*Tamiasciurus hudsonicus loquax* (Bangs)  
DIPLOSTOMIDAE  
*Fibricola cratera* (MI)  
  
FAMILY ZAPODIDAE  
  
*Zapus hudsonius* (Zimmermann) Meadow jumping mouse  
NOTOCOTYLIDAE  
*Quinqueserialis quinqueserialis* (Nfld,Que)  
PLAGIORCHIIDAE  
*Plagiorchis proximus* (Nfld,Que)

SCHISTOSOMATIDAE

*Schistosomatum douthitti* (MI)

*Zapus hudsonius hudsonius* (Zimmermann)

NOTOCOTYLIDAE

*Notocotylus hassalli* (MI)

**ORDER SIRENIA**

**FAMILY TRICHECHIDAE**

*Trichechus manatus* Linnaeus Caribbean manatee

SYN.: *Manatus latirostris* Harlan

PARAMPHISTOMIDAE

*Chiorchis fabaceus* (FL,PA)

**INFRAClass METATHERIA**

**ORDER MARSUPIALIA**

**FAMILY DIDELPHIDAE**

*Caluromys derbianus pallidus* (Thomas)

SYN.: *Philander laniger* Woolly opossum  
*pallidus* Thomas

DICROCOELIIDAE

*Eurytrema allentoshi* (Panama)

OPISTHORCHIIDAE

*Opisthorchis pricei* (Panama)

*Didelphis marsupialis* Allen Southern opossum

BRACHYLAEMIDAE

*Brachylaima virginiana* (GA)

PARAGONIMIDAE

*Paragonimus kellicotti* (GA,NC)

*P. mexicanus* (Costa Rica, Mexico)

*P. rudis* (Panama)

*Paragonimus* spp. (Mexico)

RHOPALIASIDAE

*Rhopalias baculifer* (FL)

*R. coronatus* (FL)

*R. macracanthus* (Mexico)

*Didelphis marsupialis cauae* Allen

SYN.: *Didelphis marsupialis etensis* Allen

RHOPALIASIDAE

*Rhopalias coronatus* (Costa Rica)

*R. horridus* (Costa Rica)

*Didelphis marsupialis tabascensis* Allen

SYN.: *Didelphis mesamericana tabascensis*

Allen

RHOPALIASIDAE

*Rhopalias coronatus* (Mexico)

*R. macracanthus* (Mexico)

*Didelphis virginiana* Kerr

SYN.: *Didelphis mesamericana mesamericana*

Oken

BRACHYLAEMIDAE

*Brachylaima didelphus* (FL)

*B. opisthotrias* (IL,PA,TN,TX,VA)

*B. o. virginiana* (VA)

*B. virginiana* (GA,LA,NC,TN)

CYATHOCOTYLIDAE

*Linstowiella szidati* (LA)

DICROCOELIIDAE

*Eurytrema allentoshi* (TX)

DIPLOSTOMIDAE

*Didelphodiplostomum variabile*  
(FL,IL,NC,TN,TX)

*Fibricola cratera* (FL,GA,TN)

*F. lucida* (FL,GA,LA,TN,TX)

ECHINOSTOMATIDAE

*Echinostoma revolutum* (IL)

*Echinostoma* spp. (NC)

HETEROPHYIDAE

*Phagicola diminuta* (FL)

MICROPHALLIDAE

*Maritreminoides nettae* (NC)

OPISTHORCHIIDAE

*Amphimerus pseudofelineus* (IL)

PARAGONIMIDAE

*Paragonimus rudis* (Guatamala)

*P. westermanni* (TN)

RHOPALIASIDAE

*Rhopalias coronatus*

(Guatemala,Mexico,TX,VA)

*R. horridus* (Guatemala)

*R. macracanthus*

(FL,GA,IL,LA,NC,OK,PA,TN,TX)

SCHISTOSOMATIDAE

*Heterobilharzia americana* (LA)

*Didelphis virginiana californica* Bennett

SYN.: *Didelphis marsupialis mesamericana*

Oken

PARAGONIMIDAE

*Paragonimus mexicanus* (Mexico)

RHOPALIASIDAE

*Rhopalias macracanthus* (Mexico)

*Didelphis virginiana virginiana* Kerr

SYN.: *Didelphis marsupialis virginiana*

(Kerr)

BRACHYLAEMIDAE

*Brachylaima virginiana* (MI,VA)

DIPLOSTOMIDAE

*Fibricola cratera* (TX)

ECHINOSTOMATIDAE

*Echinostoma revolutum* (MI)

*Didelphis* spp.

BRACHYLAEMIDAE

*Brachylaima opisthotrias* (IL)

*B. virginiana* (CA,IL,VA)

DIPLOSTOMIDAE

*Didelphodiplostomum variabile* (GA)

*Fibricola lucida* (IL)

RHOPALIASIDAE

*Rhopalias macracanthus* (IL)

*Marmosa mexicana mexicana* Merriam

RHOPALIASIDAE Mexican mouse-opossum

*Rhopalias coronatus* (Guatemala)

*Metachirops opossum* Miller Gray four-eyed

SYN.: *Philander opossum* Miller opossum

PARAGONIMIDAE

*Paragonimus rudis* (Panama)

*Metachirops opossum fuscogriseus* Allen

SYN.: *Philander opossum fuscogriseus* (Allen)

MICROPHALLIDAE

*Maritrema prolixum* (Costa Rica)

OPISTHORCHIIDAE

*Amphimerus neotropicalis* (Costa Rica)

PARAGONIMIDAE

*Paragonimus mexicanus* (Costa Rica)

*P. rudis* (Costa Rica)

RHOPALIASIDAE

*Rhopalias baculifer* (Costa Rica)

*R. coronatus* (Costa Rica)

*R. horridus* (Costa Rica)

*Metachirops opossum pallidus* (Allen)

SYN.: *Philander opossum pallidus* (Allen)

PARAGONIMIDAE

*Paragonimus mexicanus* (Mexico)



## REFERENCES

- ABRAM, J. B. 1969. Some gastrointestinal helminths of *Ondatra zibethicus* Linnaeus, the muskrat in Maryland. Proceedings of the Helminthological Society of Washington 36: 93-95.
- ADDISON, E. M., AND B. BOLES. 1978. Helminth parasites of wolverine, *Gulo gulo*, from the District of MacKenzie, Northwest Territories. Canadian Journal of Zoology 56: 2241-2242.
- ADDISON, E. M., M. J. PYBUS, AND H. J. RIETVELD. 1978. Helminths and arthropod parasites of black bear, *Ursus americanus* in central Ontario. Canadian Journal of Zoology 56: 2122-2126.
- AITON, J. F. 1938. Enlarged spleen in whitetail deer at Glacier National Park. Transactions of the Third North American Wildlife Conference 3: 890-892.
- ALEXANDER, A. D., V. FLYGER, Y. F. HERMAN, S. J. McCONNELL, N. ROTHSTEIN, AND R. H. YAGER. 1972. Survey of wild mammals in a Chesapeake Bay area for selected zoonoses. Journal of Wildlife Diseases 8: 119-126.
- ALICATA, J. E. 1932. A new trematode, *Acanthatrium eptesici*, from the brown bat. Journal of the Washington Academy of Sciences 22: 271-274.
- AMEEL, D. J. 1931. More data on the lung fluke, *Paragonimus*, in North America. Science 74: 493-494.
- 1932. The muskrat, a new host for *Paragonimus*. Science 75: 382.
- 1934. *Paragonimus*, its life history and distribution in North American and its taxonomy (Trematoda: Troglotrematidae). American Journal of Hygiene 19: 279-317.
- 1938. The morphology and life cycle of *Euryhelms monorchis* n. sp. (Trematoda) from the mink. Journal of Parasitology 24: 219-224.
- 1942. Two larval cestodes from the muskrat. Transactions of the American Microscopical Society 61: 267-271.
- 1944. The life history of *Nudacotyle novicia* Barker, 1916 (Trematoda: Notocotylidae). Journal of Parasitology 30: 257-263.
- ANDERSON, D. R., AND R. L. BEAUDOIN. 1966. Host habitat and age as factors in the prevalence of intestinal parasites of the muskrat. Bulletin of the Wildlife Disease Association 2: 70-77.
- ANDREWS, C. L., W. R. DAVIDSON, AND E. E. PROVOST. 1980. Endoparasites of selected populations of cottontail rabbits (*Sylvilagus floridanus*) in the southeastern United States. Journal of Wildlife Diseases 16: 395-401.
- ANONYMOUS, 1930. Experimental fur farm. Ontario Department of Game Fish Annual Report 23 (1929) 9-12.
- 1931. A note on *Parametorchis canadensis* (Law) from Ontario mink. Report of the Ontario Veterinary College for 1930: 39.
- 1950. Survey to ascertain the geographical distribution of the large American liver fluke (*Fascioloides magna*) in Ontario. Report of the Ontario Veterinary College for 1949: 35.
- ARATA, A. A. 1959. Ecology of muskrats in strip-mine ponds in southern Illinois. Journal of Wildlife Management 23: 177-186.
- ARCHER, J., S. J. TAFT, AND R. P. THIEL. 1986. Parasites of wolves, *Canis lupus*, in Wisconsin, as determined from fecal examinations. Proceedings of the Helminthological Society of Washington 53: 290-291.
- AUGUSTINE, D. L., AND C. URIBE. 1927. *Alaria arisaemoides*, n.sp., a trematode from *Vulpes fulva*. Parasitology 19: 236-244.
- BABERO, B. B. 1953. Some helminth parasites of Alaskan beavers. Journal of Parasitology 39: 674-675.
- 1957. Some helminths from Illinois opossums. Journal of Parasitology 43: 232.
- 1960a. Further studies on helminths of the opossum, *Didelphis virginiana*, with a description of a new species from this host. Journal of Parasitology 46: 455-463.
- 1960b. A survey of parasitism in skunks (*Mephitis mephitis*) in Louisiana, with observations on pathological damages due to helminthiasis. Journal of Parasitology 46 (section 2, supplementary): 26-27.
- 1972. A record of progenesis in trematoda. Proceedings of the Helminthological Society of Washington, 39(1): 128-136.

- BABERO, B. B., L. H. KARSTAD, AND J. R. SHEPPERSON. 1959. Studies on helminth parasitism of feral swine in Georgia. Bulletin of the Georgia Academy of Science 17: 94-104.
- BABERO, B. B., AND J. W. LEE. 1961. Studies on the helminths of nutria, *Myocastor coypus* (Molina), in Louisiana with checklist of other worm parasites from this host. Journal of Parasitology 47: 378-390.
- BABERO, B. B., AND R. RAUSCH. 1952. Notes on some trematodes parasitic in Alaskan Canidae. Proceedings of the Helminthological Society of Washington 19: 15-17.
- BABERO, B. B., AND J. R. SHEPPERSON. 1958. Some helminths of raccoons in Georgia. Journal of Parasitology 44: 519.
- BAFUNDO, K. W., W. E. WILHELM, AND M. L. KENNEDY. 1980. Geographic variation in helminth parasites from the digestive tract of Tennessee raccoons, *Procyon lotor*. Journal of Parasitology 66: 134-139.
- BALL, L. 1952. Notes on helminth parasites of muskrats from western Colorado. Journal of Parasitology 38: 83-84.
- BARKER, F. D. 1915. Parasites of the American muskrat (*Fiber zibethicus*). Journal of Parasitology 1: 184-197.
- 1916. A new monostome trematode parasitic in the muskrat with a key to the parasites of the American muskrat. Transactions of the American Microscopical Society 35: 175-184.
- BARKER, F. D., AND J. W. LAUGHLIN. 1911. A new species of trematode from the muskrat, *Fiber zibethicus*. Transactions of the American Microscopical Society 30: 261-274.
- BARON, R. W. 1970. The occurrence of *Echinococcus multilocularis* Leuckart, 1863 and of other helminths in the red fox, *Vulpes vulpes*, in southern Manitoba. Canadian Journal of Zoology 48: 1132.
- BEAVER, P. C. 1941. Studies on the life history of *Euparyphium melis* (Trematoda: Echinostomidae). Journal of Parasitology 27: 35-44.
- BECKERDITE, F. W., G. C. MILLER, AND R. HARKEMA. 1971. Observations on the life cycle of *Pharyngostomoides* spp. and the description of *P. adenocephala* sp. n. (Strigeoidea: Diplostomatidae) from the raccoon, *Procyon lotor* (L.). Proceedings of the Helminthological Society of Washington 38: 149-156.
- BECKETT, J. V., AND V. GALLICCHIO. 1966. Occurrence of the lung fluke, *Paragonimus kellicotti* Ward, 1908, in Ohio mink. Journal of Parasitology 52: 511.
- 1967. A survey of helminths of the muskrat, *Ondatra z. zibethica* Miller, 1912, in Portage County, Ohio. Journal of Parasitology 53: 1169-1172.
- BEHREND, D. F., G. F. MATTFELD, AND J. E. WILEY III. 1973. Incidence of liver flukes in a sample of white-tailed deer from the Adirondacks. New York Fish and Game Journal 20: 158-161.
- BELL, J. F., AND W. S. CHALGREN. 1943. Some wildlife diseases in the eastern United States. Journal of Wildlife Management 7: 270-278.
- BEMRICH, W. J., AND J. C. SCHLOTTHAUER. 1971. *Paragonimus kellicotti* (Ward, 1908) in a Minnesota skunk (*Mephitis mephitis*). Journal of Wildlife Diseases 7: 36.
- BENNETT, H. J., AND A. G. HUMES. 1939. Studies on the pre-cercarial development of *Stichorchis subtriquetrus* (Trematoda: Paramphistomidae). Journal of Parasitology 25: 223-229.
- BERGSTROM, R. C. 1967. Sheep liver fluke, *Fasciola hepatica* L., 1758 from buffalo, *Bison bison* (L., 1758) in western Wyoming. Journal of Parasitology 53: 724.
- BEVERLEY-BURTON, M., AND P. R. SWEENY. 1972. Intranuclear, paracrystalline inclusions in various cells of *Quinqueserialis quinqueserialis* and *Notocotylus urbanensis* (Trematoda: Notocotylidae). Canadian Journal of Zoology 50: 345-348.
- BISHOP, L. 1979. Parasite-related lesions in a bearded seal, *Erignathus barbatus*. Journal of Wildlife Diseases 15: 285-293.
- BLANKESPOOR, H. D., AND P. A. SZYMUSIAK. 1974. Helminths from *Myotis keenii* (Merriam) in eastern Iowa. Journal of Parasitology 60: 934.
- BLANKESPOOR, H. D., AND M. J. ULMER. 1970. Helminths from six species of Iowa bats. Proceedings of the Iowa Academy of Science 77: 200-206.
- 1972. *Prosthodendrium volaticum* sp. n. (Trematoda: Lecithodendriidae) from two species of Iowa bats. Proceedings of the Helminthological Society of Washington 39: 224-226.
- BOSMA, N. J. 1931. *Alaria mustelae* sp. nov., a trematode requiring four hosts. Science 74: 521-522.

- 1934. The life history of the trematode *Alaria mustelae*, Bosma, 1931. Transactions of the American Microscopical Society 53: 116-153.
- BRENES, R. R., R. ZELEDON, AND G. ROJAS. 1980. Biological cycle and taxonomic position of a Costa Rican *Paragonimus* and the present status of *Paragonimus* from the new world. Brenesia 18: 353-366.
- BROOKS, D. R., AND J. R. COGGINS. 1983. *Limatulum mcdanieli* n. sp. (Digenea: Lecithodendriidae) from *Myotis lucifugus* (Mammalia: Chiroptera) in Wisconsin. Transactions of the American Microscopical Society 102: 81-83.
- BROWN, D. H., R. W. McINTYRE, C. A. DELLI QUADRI, AND R. J. SCHROEDER. 1960. Health problems of captive dolphins and seals. Journal of the American Veterinary Medical Association 137: 534-538.
- BROWNING, B. M., AND E. M. LAUPPE. 1964. A deer study in a Redwood-Douglas fir forest type. California Department of Fish and Game Bulletin 50: 132-147.
- BUMP, G. 1937. Bureau of game. 26th Annual Report of the New York State Conservation Department 288-335.
- 1940. Bureau of game. 29th Annual Report of the New York State Conservation Department 230-270.
- 1941. Bureau of game. 30th Annual Report of the New York State Conservation Department 213-260.
- 1942. Bureau of game. 31st Annual Report of the New York State Conservation Department 209-264.
- BURNS, W. C., AND I. PRATT. 1953. The life cycle of *Metagonimoides oregonensis* Price (Trematoda: Heterophyidae). Journal of Parasitology 39: 60-69.
- BUSH, A. O., AND J. M. KINSELLA. 1972. A natural definitive host for *Catantropis johnstoni* Martin, 1956 (Trematoda: Notocotylidae), with notes on experimental host specificity and intraspecific variation. Journal of Parasitology 58: 843-845.
- BUSH, A. O., AND W. M. SAMUEL. 1981. A review of helminth communities in beaver (*Castor* spp.) with a survey of *Castor canadensis* in Alberta, Canada. In: Proceedings of the First Worldwide Furbearer Conference. J.A. Chapman and D. Pursley (editors). pp 678-689.
- BUTLER, W. J. 1932. Report of the Montana livestock sanitary board. Report of the Montana Livestock Sanitary Board and State Veterinary Surgeon 1: 3-24.
- BUTTERWORTH, E. W., AND J. C. HOLMES. 1984. Character divergence in two species of trematodes (*Pharyngostomoides*: Strigeoidea). Journal of Parasitology 70: 315-316.
- BYRD, E. E., B. J. BOGITSH, AND W. P. MAPLES. 1961. *Gryosoma singularis*, a new species of trematodes (Digenea: Psilostomidae) from the racoon *Procyon lotor* (L.). Journal of Parasitology 47: 783-786.
- BYRD, E. E., AND R. W. MACY. 1942. Mammalian trematodes. III. Certain species from bats. Journal of the Tennessee Academy of Science 17(1): 149-156.
- BYRD, E. E., A. K. PRESTWOOD AND W. P. MAPLES. 1967. A new host and two new locality records for the blood fluke, *Heterobilharzia americana* Price, 1929. Journal of Parasitology 53: 1115-1116.
- BYRD, E. E., AND R. J. REIBER. 1942a. Mammalian trematodes. I. Trematodes from the opossum, *Didelphis virginiana* Kerr. Journal of the Tennessee Academy of Science 17: 130-142.
- 1942b. Mammalian trematodes. II. Three flukes from small mammals. Journal of the Tennessee Academy of Science 17: 143-148.
- BYRD, E. E., R. J. REIBER, AND M. V. PARKER. 1942. The anatomy of a lung fluke from the opossum (*Didelphis virginiana* Kerr). Journal of the Tennessee Academy of Science 17: 116-129.
- CABALLERO Y C., E. 1940. Algunos trematodos intestinales de los murcielagos de Mexico I. Anales del Instituto de Biologia. Universidad de Mexico 11: 215-223.
- 1942. Trematodes de los murcielagos de Mexico. III. Descripcion de *Urotrema scabridum* Braun 1900. Y Posicion sistematica de las especies Norteamericanas de este genero. Sobretiro de Jose Anales del Instituto de Biologia 13: 642-648.
- 1943a. Trematodos de los murcielagos de Mexico. IV. Descripcion de un nuevo genero de la subfamilia Lecithodendriinae Looss, 1902, y una nueva especie de *Prosthodendrium Dollfus*, 1931. Anales del Instituto de Biologia. Universidad de Mexico 14: 173-193.
- 1943b. Algunas especies de trematodos de los murcielagos de la region de Izucar de Matamoros, Pue. V. Anales del Instituto de Biologia. Universidad de Mexico 14: 423-430.

- 1946. Estudios helmintologicos de la region oncocercosa de Mexico y de la Republica de Guatemala. Trematoda. II. Presencia de *Paragonimus* en reservorios naturales y descripcion de un Nuevo Genero. Anales del Instituto de Biologia. Universidad de Mexico 17: 137-165.
- 1947. *Stichorchis subtriquetrus* (Rudolphi, 1814) en los castores del estado de Nuevo Leon, Mexico. Anales del Instituto de Biologia. Universidad de Mexico 18: 165-168.
- 1964a. Helmintos de la Republica de Panama, XXIV. Descripcion de tres especies de trematodos Lecithodendriidae que parasitan al murcielago *Myotis nigricans nigricans* (Schinz). Anales De La Escuela Nacional De Ciencias Biologicas 13: 73-82.
- 1964b. Tres nuevas especies de trematoda Rudolphi, 1808 que parasitan a murcielagos (Chiroptera Blumenbach, 1774) de America Latina. Universidad de Nuevo Leon Mexico 5: 1-34.
- CABALLERO, Y C. E., M. BRAVO-HOLLIS, Y M. C. CERECORO. 1944. Estudios helmintologicos de la region oncocercosa de Mexico y de la Republica de Guatemala Trematoda I. Anales del Instituto de Biologia. Universidad de Mexico 75: 59-72.
- CABALLERO Y C. E., R. R. BRENES, AND O. JIMENEZ-QUIROS. 1957. Helmintos de la Republica de Costa Rica. IV. Algunos Trematodos de animales domesticos y silvestres. Revista De Biologia Tropical 5: 135-155.
- CABALLERO, Y C. E., AND G. R. CABALLERO. 1969a. Un nuevo genero de trematodo digeneo de los conductos biliare de un mamifero de la Republica de Costa Rica, America Central. Anales de la Escuela Nacional De Ciencias Biologicas Mexico 18: 277-285.
- 1969b. Trematodos de los murcielagos de Mexico. IX. Descripcion de una nueva especie de *Platynosomum* Looss, 1907 y a continuacion el primer suplemento del catalogo taxonomico de los trematodos que parasitan a los murcielagos. Revista De La Sociedad Mexicana De Historia Natural 30: 263-290.
- CABALLERO, Y C. E., AND M. C. CERECERO. 1942. Trematodos de los murcielagos de Mexico. II. Redescripcion y posicion sistematica de *Distomum tubiporum* Braun, 1900. Anales del Instituto de Biologia. Universidad de Mexico 13: 97-104.
- CABALLERO, Y C. E., AND F. M. GEI. 1961. Descripcion de dos trematodos de un marsupial de la Republica de Costa Rica y un catalogo de los trematodos que parasitan a Marsupiales Illiger, 1811. Anales De La Escuela Nacional De Ciencias Biologicas 10: 45-86.
- 1963. Presencia de *Castroia silvai* Travassos, 1928, (Trematoda Digenea) en un murcielago de Costa Rica. Anales de la Escuela Nacional De Ciencias Biologicas 12: 85-89.
- CABALLERO Y C. E., F. M. GEI, AND G. R. CABALLERO. 1963. Una nueva especie de Opistorquido (Trematoda, Digenea) parasita del pancreas de un marsupial. Anales De La Escuela Nacional De Ciencias Biologicas 12: 79-84.
- CABALLERO Y C., E., AND M. C. Y D. ZERECERO. 1951. Trematodos de los murcielagos de Mexico. VII. Presencia de *Prosthodendrium macnabi* Macy, 1936, en *Lasiurus cinereus* (Beauvois). Anales del Instituto de Biologia. Universidad de Mexico 22: 159-167.
- CAIN, G. D. 1966. Helminth parasites of bats from Carlsbad Caverns, New Mexico. Journal of Parasitology 52: 351-357.
- CAIN, G. D., AND E. H. STUDIER. 1972. *Plagiorchis* (*Plagiorchis*) *micracanthos* Macy, 1931 (Trematoda: Digenea), from *Myotis lucifugus* occultus in north-east New Mexico. Southwestern Naturalist 17: 104-105.
- 1974. Parasitic helminths of bats from the southwestern United States and Mexico. Proceedings of the Helminthological Society of Washington 41: 113-114.
- CAMERON, A. E. 1923. Notes of buffalo: anatomy, pathological conditions, and parasites. Veterinary Journal 79: 331-336.
- CAMERON, T. W. M. 1936. Studies on the heterophyid trematode, *Apophallus venustus* (Ransom, 1920) in Canada. Part I. Morphology and taxonomy. Canadian Journal of Research Section D, Zoological Sciences 14: 59-69.
- 1937a. Studies on the heterophyid trematode *Apophallus venustus* (Ransom, 1920) in Canada. Part II. Life history and bionomics. Canadian Journal of Research Section D, Zoological Sciences 15: 38-51.
- 1937b. Cited in: The distribution of *Paragonimus*. Journal of Parasitology 23: 382-388.



- CANAVAN, W. P. N. 1934. On a trematode *Allopyge undulatus* n.sp. parasitic in Lilford's crane (*Megalornis grus lilfordi*). *Parasitology* 26: 117-120.
- CARMICHAEL, A. C., AND A. E. MUCHLINSKI. 1980. Survival of *Schistosomatium douthitti* during hibernation in the natural host, *Zapus hudsonius*. *Journal of Parasitology* 66: 365-366.
- CHADDOCK, T. T. 1948. Some facts relative to disease as found in wildlife. *North American Veterinarian* 29: 560-567.
- CHANDLER, A. C. 1929. A new species of trematode worms belonging to the genus *Hasstilesia* from rabbits in Texas. *Proceedings of the United States National Museum* 75: 1-5.
- 1932. Notes on the helminth parasites of the opossum (*Didelphus virginiana*) in southeast Texas, with descriptions of four new species. *Proceedings of the United States National Museum* 81(16): 1-15.
- 1938. A report on the parasites of a bat, *Nycticeius humeralis*, with descriptions of four new helminths. In A. Neiva, ed. *Livro Jubilar Professor Lauro Travassos*. Instituto Oswaldo Cruz, Rio de Janeiro, Brazil. pp. 107-114.
- 1941. Helminths of muskrats in southeast Texas. *Journal of Parasitology* 27: 175-181.
- 1942a. The helminths of raccoons in east Texas. *Journal of Parasitology* 28: 255-268.
- 1942b. The morphology and life cycle of a new strigeid, *Fibricola texensis*, parasitic in raccoons. *Transactions of the American Microscopical Society* 61: 156-167.
- 1946. Helminths of armadillos, *Dasyus novemcinctus*, in eastern Texas. *Journal of Parasitology* 32: 237-241.
- 1954. New strigeids from Minnesota birds and mammals. *American Midland Naturalist* 52: 133-141.
- CHANDLER, A. C., AND R. RAUSCH. 1946. A study of strigeids from Michigan mammals, with comments on the classification of mammalian strigeids. *Transactions of the American Microscopical Society* 65: 328-337.
- CHEATUM, E. L. 1942. Comparative disease studies (Supplement E). *Pittman-Robertson Quarterly* 2: 215.
- 1951. Disease in relation to winter mortality of deer in New York. *Journal of Wildlife Management* 15: 216-220.
- CHENG, T. C. 1957. Studies on the genus *Acanthatrium* Faust, 1919 (Trematoda: Lecithodendriidae); with the description of two new species. *Journal of Parasitology* 43: 60-65.
- 1959. The description of *Acanthatrium beuschleini* n. sp., a new trematode parasite of bats; and a re-evaluation of the reproductive system of *Acanthatrium sogandaresi* Coil and Kuntz, 1958. *Journal of Parasitology* 45: 323-326.
- CHING, H. L., AND E. S. ROBINSON. 1959. Two campulid trematodes from a new host, the harbor porpoise. *Journal of Parasitology* 45: 181.
- CHOQUETTE, L. P. E., AND D. H. PIMLOTT. 1956. Gastrointestinal parasites of beaver in Newfoundland. *Canadian Journal of Zoology* 34: 209.
- CHOQUETTE, L. P. E., E. BROUGHTON, AND G. G. GIBSON. 1973. *Schistosomatium douthitti* (Cort, 1914) Price, 1929 in a porcupine (*Erethizon dorsatum*) in eastern Ontario, Canada. *Canadian Journal of Zoology* 51: 1317.
- CHOQUETTE, L. P. E., G. G. GIBSON, AND B. SIMARD. 1971. *Fascioloides magna* (Bassi, 1875) Ward, 1917 (Trematoda) in woodland caribou, *Rangifer tarandus caribou* (Gmelin), of northeastern Quebec, and its distribution in wild ungulates in Canada. *Canadian Journal of Zoology* 49: 280-281.
- CHOQUETTE, L. P. E., G. G. GIBSON, E. KUYT, AND A. M. PEARSON. 1973. Helminths of wolves, *Canis lupus* L., in the Yukon and Northwest Territories. *Canadian Journal of Zoology* 51: 1087-1091.
- CHRISTIAN, F. A. 1972. *Acanthatrium umbraculatum* sp. n. (Digenea: Lecithodendriidae) from the little brown bat, *Myotis lucifugus*. *Journal of Parasitology* 58: 710-711.
- CIORDIA, H. 1949. Cytological study of *Rhopalias macracanthus* Chandler, 1932, a trematode from the opossum, *Didelphis virginiana*. *Journal of Parasitology* 35: 417-422.
- COGGINS, J. R., J. L. TEDESCO, AND C. E. RUPPRECHT. 1981. Intestinal helminths of the bat, *Myotis keenii* (Merriam), from southeastern Wisconsin. *Proceedings of the Helminthological Society of Washington* 48: 93-96.
- 1982. Seasonal changes and overwintering of parasites in the bat, *Myotis lucifugus* (Le Conte), in a Wisconsin hibernaculum. *American Midland Naturalist* 107: 305-315.

- CONKLIN, R. L., AND A. D. BAKER. 1930. Presence of the lancet fluke, *Dicrocoelium dendriticum* (Rudolphi, 1819) in Canada. *Journal of Parasitology* 17: 18-19.
- CONTI, J. A., D. J. FORRESTER, AND J. R. BRADY. 1983. Helminths of black bears in Florida. *Proceedings of the Helminthological Society of Washington* 50: 252-256.
- COOPER, A. R. 1921. Trematodes and cestodes of the Canadian Arctic Expedition. Report of the Canadian Arctic Expeditions, 1913-1918, #19, Parts G-H: 1-27.
- COWAN, D. F. 1966. Pathology of the pilot whale *Globicephala melaena*. A comparative survey. *Archives of Pathology* 82: 178-189.
- 1967. Helminth parasites of the pilot whale *Globicephala melaena* (Traill, 1809). *Journal of Parasitology* 53: 166-167.
- COWAN, I. MCT. 1942. Report upon some diseases and parasites of game birds and game and fur-bearing mammals in British Columbia. Report of the Provincial Game Commission, British Columbia (1941), K40-K45.
- 1946. Parasites, diseases, injuries, and anomalies of the Columbian black-tailed deer, *Odocoileus hemionus columbianus* (Richardson), in British Columbia. *Canadian Journal of Research Section D, Zoological Sciences* 24: 71-103.
- 1951. The diseases and parasites of big game animals of Western Canada. *Proceeding of the Fifth Annual Game Convention, Vancouver, B.C.* 1951 5: 37-64.
- CRAM, E. B. 1926. Wild carnivores as hosts of the trematode previously found in dogs as the result of salmon poisoning. *The North American Veterinarian* 7: 42-43.
- CUSTER, J. W., AND D. B. PENCE. 1981. Ecological analyses of helminth populations of wild canids from the gulf coastal prairies of Texas and Louisiana. *Journal of Parasitology* 67: 289-307.
- DAHLBERG, B. L., AND R. C. GUETTINGER. 1956. The white-tailed deer in Wisconsin. *Technical Wildlife Bulletin No. 14, Game Management Division, Wisconsin Conservation Department*: 282 pp.
- DAILEY, M. D. 1971. Distribution of helminths in the dall porpoise (*Phocoenoides dalli* True). *Journal of Parasitology* 57: 1348.
- DAILEY, M. D., AND S. H. RIDGWAY. 1976. A trematode from the round window of an Atlantic bottlenosed dolphin's ear. *Journal of Wildlife Diseases* 12: 45-47.
- DAILEY, M., AND R. STROUD. 1978. Parasites and associated pathology observed in cetaceans stranded along the Oregon coast. *Journal of Wildlife Disease* 14: 503-511.
- DAILEY, M. D., AND W. A. WALKER. 1978. Parasitism as a factor (?) in single strandings of southern California cetaceans. *Journal of Parasitology* 64: 593-596.
- DAVIDSON, W. R. 1976. Endoparasites of selected populations of gray squirrels (*Sciurus carolinensis*) in the southeastern United States. *Proceedings of the Helminthological Society of Washington* 43: 211-217.
- DAVIDSON, W. R., J. L. BLUE, L. B. FLYNN, S. M. SHEA, R. L. MARCHINTON, AND J. A. LEWIS. 1987. Parasites, diseases and health status of sympatric populations of sambar deer, and white-tailed deer in Florida. *Journal of Wildlife Diseases* 23: 267-272.
- DELOYA, J. C. 1970. Descripcion de *Brachylaemus* (*Brachylaemus*) *bravoae* sp. nov. (Trematoda: Digenea), de roedores del estado de Jalisco, Mexico. *Anale del Instituto de Biologia. Nal. Auton. Mexico.* 41. Ser. Zoologia, Num Unico: 39-44.
- DENTON, J. F. 1942. *Eurytrema procyonis*, n. sp. (Trematoda: Dicrocoeliidae), from the raccoon, *Procyon lotor*. *Proceedings of the Helminthological Society of Washington* 9: 29-30.
- 1944a. The occurrence of *Eurytrema allantoshi* (Foster, 1939) in the opossum in Texas. *Proceedings of the Helminthological Society of Washington* 11: 54-55.
- 1944b. Studies on the life history of *Eurytrema procyonis* Denton, 1942. *Journal of Parasitology* 30: 277-286.
- DENTON, J. F., AND J. M. KINSELLA. 1972. *Lyperosomum* *intermedium* sp. n. (Digenea: Dicrocoeliidae) from the rice rat, *Oryzomys palustris*, from southeastern salt marshes. *Journal of Parasitology* 58: 226-228.
- DIBBLE, E. D., W. F. FONT, AND D. D. WITTRICK. 1983. Helminths of the red fox, *Vulpes vulpes* L., in West Central Wisconsin. *Journal of Parasitology* 69: 1170-1172.
- DICK, T. A., AND R. D. LEONARD. 1979. Helminth parasites of fisher *Martes pennanti* (Erxleben) from Manitoba, Canada. *Journal of Wildlife Diseases* 15: 409-412.
- DICKERSON, L. M. 1930. A new variety of *Harmostomum opisthotrias* from the North American opossum, *Didelphys virginiana*,

- with a discussion of its possible bearing on the origin of its host. *Parasitology* 22: 37-46.
- DIKMANS, G. 1930. *Fasciola hepatica* from the bile ducts of a rabbit. *Journal of Parasitology* 16: 162.
- DINABURG, A. G. 1939. Helminth parasites collected from deer *Odocoileus virginianus*, in Florida. *Proceedings of the Helminthological Society of Washington* 6: 102-104.
- DODDS, D. G., AND J. S. MACKIEWICZ. 1961. Some parasites and diseases of snowshoe hares in Newfoundland. *Journal of Wildlife Management* 25: 409-414.
- DORNEY, R. S., AND L. H. LAUERMAN JR. 1969. A helminthological survey of wild mink in Wisconsin. *Bulletin of the Wildlife Disease Association* 5: 35-36.
- DUBOIS, G. 1951. Etude des trematodes Nord-Américains de la collection E. L. Schiller et revision du genre *Notocotylus* Diesing, 1839. *Bulletin de la Societe Neuchateloise des Sciences Naturelles* 74: 41-76.
- DUBOIS, G., AND R. RAUSCH. 1950. Troisieme contribution a l'etude des Strigeides (Trematoda) Nord-Américains. *Bulletin de la Societe Neuchateloise des Sciences Naturelles* 73: 19-50.
- 1960. Quatrieme contribution a l'etude des Strigeides (Trematoda) Nord-Américains. *Bulletin de la Societe Neuchateloise des Sciences Naturelles* 83: 79-92.
- DUFF, D. 1914. The beaver fluke, *Amphistomum subtriquetrum*, Rudolphi. *Transactions of the Royal Society of Canada* 8 (series 3, section 4): 87-89.
- DUNAGAN, T. T. 1957a. Studies on the parasites of edible animals of Alaska. Alaskan Air Command Arctic Aeromedical Laboratory, Ladd Air Force Base. Technical Note AAL-TN-57-14. Report on Project No. 7955-4.
- 1957b. Helminth parasites of Alaskan muskrats. *Transactions of the American Microscopical Society* 76: 318-320.
- DUNN, A. M. 1968. The wild ruminant as reservoir host of helminth infection. *Symposia of the Zoological Society of London* 24: 221-248.
- DUTSON, V. J., J. N. SHAW, AND S. E. KNAPP. 1967. Epizootiologic factors of *Fascioloides magna* (Trematoda) in Oregon and southern Washington. *American Journal of Veterinary Research* 28: 853-860.
- DYER, W. G. 1970. Helminths of the striped skunk, *Mephitis mephitis* Schreber, in North Dakota. *Proceedings of the Helminthological Society of Washington* 37: 92-93.
- DYER, W. G., AND W. D. KLIMSTRA. 1977. Gastrointestinal helminths of the muskrat, *Ondatra zibethicus*, in southern Illinois. *Transactions of the Illinois State Academy of Science* 70: 356-362.
- ECKERLIN, R. P. 1973. *Hasstilesia tricolor* (Stiles and Hassall, 1894) Hall, 1916, from a new host, *Sylvilagus transitionalis* in Connecticut. *Journal of Parasitology* 59: 1137-1138.
- EDWARDS, R. L. 1949. Internal parasites of central New York muskrats (*Ondatra z. zibethica* L.). *Journal of Parasitology* 35: 547-548.
- ERICKSON, A. B. 1938. Parasites of some Minnesota Cricetidae and Zapodidae, and a host catalogue of helminth parasites of native American mice. *American Midland Naturalist* 20: 575-589.
- 1940. *Euparyphium melis* (Trematoda: Echinostomidae) from the snowshoe hare. *Journal of Parasitology* 26: 334.
- 1944. Parasites of beavers, with a note on *Paramphistomum castori* Kofoid and Park, 1937 a synonym of *Stichorchis subtriquetrum*. *American Midland Naturalist* 31: 625-630.
- 1946. Incidence of worm parasites in Minnesota Mustelidae and host lists and keys to North American species. *American Midland Naturalist* 36: 494-509.
- 1947. Helminth parasites of rabbits of the genus *Sylvilagus*. *Journal of Wildlife Management* 11: 255-263.
- 1950. Helminths of Minnesota Canidae in relation to food habits, and a host list and key to the species reported from North America. *American Midland Naturalist* 32: 358-372.
- ERICKSON, A. B., AND P. R. HIGHBY. 1942. Parasites of the woodland caribou. *Journal of Parasitology* 28: 423.
- FARLEY, J. 1962. *Schistosomatium douthitti* (Cort, 1914) Prince, 1931 in Manitoba. *Canadian Journal of Zoology* 40: 131-133.
- FAUST, E. C. 1919. A new trematode, *Acanthatrium nycteridis*, nov. gen., nov. spec., from the little brown bat. *Transactions of the American Microscopical Society* 38: 209-215.

- FEDYNICH, A. M., D. B. PENCE, AND R. L. URUBEK. 1986. Helminth fauna of beaver from central Texas. *Journal of Wildlife Diseases* 22: 579-582.
- FELDMAN, D. B., J. A. MOORE, M. W. HARRIS, AND J. L. SELF. 1972. Characteristics of common helminths of the Virginia opossum (*Didelphis virginiana*) from North Carolina. *Laboratory Animal Science* 22: 183-189.
- FENSTERMACHER, R. 1934. Further studies of diseases affecting moose. Bulletin 308, University of Minnesota Agricultural Experimental Station: 26 pp.
- 1937. Further studies of diseases affecting moose. II. *Cornell Veterinarian* 27: 25-37.
- FENSTERMACHER, R., AND W. L. JELLISON. 1933. Diseases affecting moose. Bulletin 294, University of Minnesota Agricultural Experimental Station: 20 pp.
- FENSTERMACHER, R., O. W. OLSEN, AND B. S. POMEROY. 1943. Some diseases of white-tailed deer in Minnesota. *Cornell Veterinarian* 33: 323-332.
- FLEISCHMAN, R. W., AND R. A. SQUIRE. 1970. Verminous pneumonia in the California sea lion (*Zalophus californianus*). *Pathologia Veterinaria* 7: 89-101.
- FLEMING, W. J., C. F. DIXON, AND J. W. LOVETT. 1977. Helminth parasites of river otters (*Lutra canadensis*) from southeastern Alabama. *Proceedings of the Helminthological Society of Washington* 44: 131-135.
- FLOOK, D. R., AND J. E. STENTON. 1969. Incidence and abundance of certain parasites in wapiti in the national parks of the Canadian Rockies. *Canadian Journal of Zoology* 47: 795-803.
- FOLEY, G. L., W. I. ANDERSON, AND M. E. GEORGI. 1987. *Eurytrema procyonis* in a New York fox. *Cornell Veterinarian* 77: 168-171.
- FONT, W. F. 1978. *Ototrema schildti* gen. et sp. n. (Trematoda: Lecithodendriidae) from the little brown bat, *Myotis lucifugus* in Wisconsin. *Journal of Parasitology* 64: 391-392.
- FOREYT, W. J., AND D. L. DRAWE. 1978. Anthelmintic activity of albendazole in white-tailed deer. *American Journal of Veterinary Research* 39: 1901-1903.
- FOREYT, W. J., AND R. L. HUNTER. 1980. Clinical *Fascioloides magna* infection in sheep in Oregon on pasture shared by Columbian white-tailed deer. *American Journal of Veterinary Research* 41: 1531-1532.
- FOREYT, W. J., W. M. SAMUEL, AND A. C. TODD. 1977. *Fascioloides magna* in white-tailed deer (*Odocoileus virginianus*): observations on the pairing tendency. *Journal of Parasitology* 63: 1050-1052.
- FOREYT, W. J., AND A. C. TODD. 1972. The occurrence of *Fascioloides magna* and *Fasciola hepatica* together in the livers of naturally infected cattle in south Texas, and the incidence of the flukes in cattle, white-tailed deer, and feral hogs. *Journal of Parasitology* 58: 1010-1011.
- 1973. Action of Oxyclozanide against adult *Fascioloides magna* (Bassi, 1875) infections in white-tailed deer. *Journal of Parasitology* 59: 208-209.
- 1976. Effects of six fasciolicides against *Fascioloides magna* in white-tailed deer. *Journal of Wildlife Diseases* 12: 361-366.
- FOREYT, W. J., A. C. TODD, AND K. FOREYT. 1975. *Fascioloides magna* (Bassi, 1875) in feral swine from southern Texas. *Journal of Wildlife Diseases* 11: 554-559.
- FORRESTER, D. J., AND W. D. ROBERTSON. 1975. Helminths of rough-toothed dolphins, *Steno bredanensis* Lesson 1828, from Florida waters. *Journal of Parasitology* 61: 922.
- FOSTER, A. O. 1939. Some helminths of the woolly opossum in Panama. *Transactions of the American Microscopical Society* 58: 185-198.
- FRANSDEN, J. C., AND A. W. GRUNDMANN. 1960. *Brachylaime microti* from the deer mouse in Utah. *Journal of Parasitology* 46: 314.
- 1961. Endoparasitism in isolated populations of rodents of the Lake Bonneville Basin, Utah. *Journal of Parasitology* 47: 391-396.
- FRANKLIN, J., M. L. SIMMONS, AND G. E. COSGROVE. 1966. A pathogen survey in the Kansas cottontail. *Bulletin of the Wildlife Disease Association* 2: 52-53.
- FYVIE, A. 1966. A review and current survey of the common diseases and parasites of wildlife in Ontario. Ontario Department of Lands and Forests Section Report (Wildlife) 63: 1-21.
- GASH, S. L., AND W. L. HANNA. 1972. Occurrence of some helminth parasites in the muskrat, *Ondatra zibethicus*, from Crawford County, Kansas. *Transactions of the Kansas Academy of Science* 75: 251-254.

- GESINSKI, R. M., R. E. THOMAS, AND V. GALLICCHIO. 1964. Survey of *Paragonimus* in Ohio mink. *Journal of Parasitology* 50: 151.
- GIBSON, D. J., AND E. A. HARRIS. 1979. The helminth parasites of cetaceans in the collection of the British Museum (Natural History), p. 309-324. In: G. Pilleri (ed) *Investigations on Cetacea*, No. 10.
- GILBERTSON, D. E. 1977. *Alaria arisaemoides* (Trematoda): Occurrence in foxes from Minnesota. *Journal of Parasitology* 63: 162-163.
- GILFORD, J. H. 1954. A survey of muskrat helminths in Illinois. *Journal of Parasitology* 40: 702-703.
- GLAZENER, W. C., AND F. F. KNOWLTON. 1967. Some endoparasites found in Welder Refuge deer. *Journal of Wildlife Management* 31: 595-597.
- GOLDBERG, A. 1954. Parasites of skunks in the Beltsville, Maryland, area. *Proceedings of the Helminthological Society of Washington* 21: 29-34.
- GRIFFITHS, H. J. 1962. Fascioloidiasis of cattle, sheep, and deer in northern Minnesota. *Journal of the American Veterinary Medical Association* 140: 342-347.
- GRUNDMANN, A. W., AND J. C. FRANDBSEN. 1960. Definitive host relationships of the helminth parasites of the deer mouse, *Peromyscus maniculatus*, in the Bonneville basin of Utah. *Journal of Parasitology* 46: 673-677.
- GRUNDMANN, A. W., AND Y-H TSAI. 1967. Some parasites of the muskrat, *Ondatra zibethicus osoyoosensis* (Lord, 1863) Miller, 1912 from the Salt Lake Valley, Utah. *Transactions of the American Microscopical Society* 86: 139-144.
- GUPTA, S. P. 1962a. On a new trematode, *Quinquesequalis zibethicai* sp. nov., of the sub-family Notocotylineae from the duodenum of muskrat (*Ondatra zibethica*) from Canada. *Indian Journal of Helminthology* 14: 66-70.
- 1962b. A redescription of *Euparyphium melis* (Shrank, 1788) Dietz, 1909 and *Echinostoma revolutum* (Froelich, 1802) Looss, 1899 parasitic in the intestine of mink (*Mustela vison*) and muskrat (*Ondatra zibethica*) from Canada. *Indian Journal of Helminthology* 14: 77-85.
- HADWEN, S. 1916. A new host for *Fasciola magna*, Bassi, together with observations on the distribution of *Fasciola hepatica*, L., in Canada. *Journal of the American Veterinary Medical Association* 2: 511-515.
- 1932. Helminth parasites of deer. *Journal of Parasitology* 19: 83.
- HALL, J. E., AND B. SONNENBERG. 1955. Some helminth parasites of rodents from localities in Maryland and Kentucky. *Journal of Parasitology* 41: 640-641.
- HALL, M. C. 1916. *Hasstilesia tricolor* (Stiles and Hassall, 1894), a common parasite of rabbits in the United States. *Journal of the American Veterinary Medical Association* 48: 453-456.
- HAND, C., AND M. VOGEL. 1952. *Ariolimax columbianus*, an intermediate host for *Brachylaemus virginiana* (Dickerson) (Trematoda: Digenea) in California. *Journal of Parasitology* 38: 57-58.
- HARKEMA, R. 1936. The parasites of some North Carolina rodents. *Ecological Monographs* 6: 151-232.
- 1942. *Pharyngostomoides procyonis* n. g., n. sp. (Strigeida) a trematode from the raccoon in North Carolina and Texas. *Journal of Parasitology* 28: 117-122.
- HARKEMA, R., AND G. C. MILLER. 1959. Studies on the helminths of North Carolina vertebrates. I. *Procyotrema marsupiformis* n. g., n. sp. (Strigeida: Diplostomatidae) from the pancreatic duct of the raccoon. *Journal of Parasitology* 45: 151-153.
- 1961. *Parallelorchis diglossus* n. g., n. sp., a trematode (Strigeida: Diplostomatidae) from the Florida raccoon. *Journal of Parasitology* 47: 611-613.
- 1962. Helminths of *Procyon lotor solutus* from Cape Island, South Carolina. *Journal of Parasitology* 48: 333-335.
- 1964. Helminth parasites of the raccoon, *Procyon lotor* in the southeastern United States. *Journal of Parasitology* 50: 60-66.
- HARLEY, J. P. 1972. *Paragonimus kellicotti* in Kentucky. *American Midland Naturalist* 88: 474-475.
- HARLOW, R. F., AND F. K. JONES, JR. 1965. The white-tailed deer in Florida. Technical Bulletin No. 9, Florida Game and Fresh Water Fish Commission.
- HARRIS, A. H., R. HARKEMA, AND G. C. MILLER. 1967. Maternal transmission of *Pharyngostomoides procyonis* Harkema, 1942 (Trematoda: Diplostomatidae). *Journal of Parasitology* 53: 1114-1115.
- HARWOOD, P. D. 1939. Notes on Tennessee helminths. IV. North American trematodes of the subfamily Notocotylineae. *Journal of*

- the Tennessee Academy of Science 14: 421-437.
- HENDRICKS, D. P. 1973. *Neoglyphe soricis* (Pojmanska) (Trematoda) from Montana shrews. *Journal of Parasitology* 59: 488.
- HERBER, E. C. 1942. Life history studies on two trematodes of the subfamily Notocotylinae. *Journal of Parasitology* 28: 179-193.
- 1955. Life history studies on *Notocotylus urbanensis* (Trematoda: Notocotylinae). *Proceedings of the Pennsylvania Academy of Science* 29: 267-275.
- HERMAN, C. M. 1945. Some worm parasites of deer in California. *California Department of Fish and Game Bulletin* 31: 201-208.
- HERMAN, C. M., P. M. BAUMAN, AND R. T. HABERMANN. 1957. The prevalence of *Eurytrema procyonis* Denton (Trematoda: Dicrocoeliidae) in some mammals from Maryland. *Journal of Parasitology* 43: 113-114.
- HOBERG, E. P., AND S. G. McGEE. 1982. Helminth parasitism in racoons, *Procyon lotor hirtus* Nelson and Goldman, in Saskatchewan. *Canadian Journal of Zoology* 60: 53-57.
- HOFFMAN, G. L. 1955. Notes on the life cycle of *Fibricola cratera* (Trematoda: Strigeida). *Journal of Parasitology* 41: 327.
- HOLLAND, J. B., JR. 1959. Liver flukes in the southeastern white-tailed deer. *Proceedings of the 12th Annual Conference of the Southeastern Association of Game and Fish Commissioners*. October 19-22, 1958. pp 224-227.
- HOLLOWAY, H. L. 1966. Helminths of rabbits and opossums at Mountain Lake, Virginia. *Bulletin of the Wildlife Disease Association* 2: 38.
- HOLMES, J. C. 1963. Helminth parasites of pine marten, *Martes americana*, from the District of MacKenzie. *Canadian Journal of Zoology* 41: 333.
- HOLMES, J. C., AND R. PODESTA. 1968. The helminths of wolves and coyotes from the forested regions of Alberta. *Canadian Journal of Zoology* 46: 1193-1204.
- HUFFMAN, J. E., AND L. R. PENNER. 1981. Helminths from the short-tailed shrew, *Blarina brevicauda*, in Connecticut with reference to the histopathology of *Capillaria*. *Proceedings of the Helminthological Society of Washington* 48: 209-213.
- JACOBSON, H. A., R. L. KIRKPATRICK, AND R. B. HOLLIMAN. 1974. Emaciation and enteritis of cottontail rabbits infected with *Hasstilesia tricolor* and observations on a fluke to fluke attachment phenomenon. *Journal of Wildlife Diseases* 10: 111-114.
- JACOBSON, H. A., R. L. KIRKPATRICK, AND B. S. MCGINNIS. 1978. Disease and physiologic characteristics of two cottontail populations in Virginia. *Wildlife Monograph* No. 60.
- JAMESON, D. K. 1959. A survey of the parasites of five species of bats. *Southwestern Naturalist* 4: 61-65.
- JENKINS, E. AND A. W. GRUNDMANN. 1973. The parasitology of the ground squirrels of western Utah. *Proceedings of the Helminthological Society of Washington* 40: 76-86.
- JENSEN, D. N. 1972. The life history of *Scaphiostomum pancreaticum* McIntosh, 1934 (Trematoda: Brachylaemidae). *Canadian Journal of Zoology* 50: 201-204.
- JILEK, R. 1977. Trematode parasites of the muskrat, *Ondatra zibethica zibethica*, in southern Illinois. *Transactions of the Illinois State Academy of Science* 70: 105-107.
- JOHNSON, A. D. 1968. Life history of *Alaria marcianae* (La Rue, 1917) Walton, 1949 (Trematoda: Diplostomatidae). *Journal of Parasitology* 54: 324-332.
- 1979. Morphology and life history of *Alaria mustelae* Bosma 1931 (Trematoda: Diplostomatidae) from Minnesota mustelids. *Journal of Parasitology* 65: 154-160.
- JOHNSTON, D. G., AND S. H. RIDGWAY. 1969. Parasitism in some marine mammals. *Journal of the American Veterinary Medical Association* 155: 1064-1072.
- JORDAN, H. E., AND E. E. BYRD. 1958. *Paragonimus* in wild and domesticated animals in Georgia. *Journal of Parasitology* 44: 470.
- JORDAN, H. E., AND F. A. HAYES. 1959. Gastrointestinal helminths of raccoons (*Procyon lotor*) from Ossabaw Island, Georgia. *Journal of Parasitology* 45: 249-252.
- KAPLAN, E. H. 1964. *Heterobilharzia americana* Price, 1929, in the opossum from Louisiana. *Journal of Parasitology* 50: 797.
- KENNEDY, M. J., M. W. LANKESTER, AND J. B. SNIDER. 1985. *Paramphistomum cervi* and *Paramphistomum liorchis* (Digenea: Paramphistomatidae) in moose, *Alces alces*, from Ontario, Canada. *Canadian Journal of Zoology* 63: 1207-1210.

- KINGSCOTE, A. A. 1947. Liver fluke control in the Burwash area. Report of the Ontario Veterinary College (1946): 34-35.
- 1950. Liver rot (fascioloidiasis) in ruminants. Canadian Journal of Comparative Medicine 14: 203-208.
- 1957. Fish, wildlife, and zoo animals. Report of the Ontario Veterinary College for 1956: 26-27.
- KINSELLA, J. M. 1971. Growth, development, and intraspecific variation of *Quinqueserialis quinqueserialis* (Trematoda: Notocotylidae) in rodent hosts. Journal of Parasitology 57: 62-70.
- KISTNER, T. P., D. WYSE, AND J. A. SCHMITZ. 1979. Pathogenicity attributed to massive infection of *Nanophyetus salmincola* in a cougar. Journal of Wildlife Diseases 15: 419-420.
- KNAPP, S. E., AND J. N. SHAW. 1963. Occurrence of *Fascioloides magna* (Bassi) in Oregon cattle and deer. Journal of Parasitology 49: 339.
- KNIGHT, I. M. 1951. Diseases and parasites of the muskrat (*Ondatra zibethica*) in British Columbia. Canadian Journal of Zoology 29: 188-214.
- KNIGHT, R. A., AND I. PRATT. 1955. The life history of *Allasogonoporus vespertilionis* Macy and *Acanthatrium oregonense* Macy (Trematoda: Lecithodendriidae). Journal of Parasitology 41: 248-255.
- KOCAN, A. A., K. WALDRUP, AND G. KUBAT. 1982. Scanning electron microscope observations of adult *Heterobilharzia americana*. Proceedings of the Oklahoma Academy of Science 62: 63-64.
- KRUIDENIER, F. J. AND V. GALLICCHIO. 1959. The orthography of the Brachylaimidae (Joyeux and Foley, 1930); *Brachylaima microti* sp. nov.; *B. rauschi McIntosh*, 1950; and an addendum to Dollfus' (1935) list of *Brachylaima* (Trematoda: Digenea). Transactions of the American Microscopical Society 78: 428-441.
- KRULL, W. H. 1935. A note on the life history of *Echinostoma coalitum* Barker and Beaver, 1915 (Trematoda: Echinostomatidae). Proceedings of the Helminthological Society of Washington 2: 76.
- KUNS, M. L., AND R. RAUSCH. 1950. An ecological study of helminths of some Wyoming voles (*Microtus* spp.) with a description of a new species of *Nematospiroides* (Heligmosomidae: Nematoda). Zoologica 35: 181-188.
- KUNZ, T. H. 1968. Helminths from the red bat, *Lasiurus borealis*, in Iowa. American Midland Naturalist 80: 542-543.
- LAMONTE-ARGUMEDO, R. 1978. Trematodes de mamiferos I. Redescription de *Rhopalias macracanthus* Chandler, 1932 y algunas consideraciones sobre el genero. Anales del Instituto de Biologia Universidad Nacional Autonoma de Mexico 49, Series Zoologia I: 25-34.
- 1980. Trematodes de mamiferos. II. Una especie nueva del genero *Dictyonograptus* Travassos, 1919 (Trematoda: Dicrocoeliidae). Anales del Institute de Biologia. Universidad Nacional Autonoma, de Mexico 51: Ser. Zoologia 1: 61-68.
- 1981. Hospederos definitivos e intermediarios de *Paragonimus mexicanus*, Miyasaki e Ishii, 1968 en Mexico. Anales del Institute de Biologia. Universidad Nacional Autonoma de Mexico 52, Ser Zoologia 1: 39-44.
- 1984. Nuevos datos sobre la distribucion geografica de *Paragonimus mexicanus*, y tres nuevos hospederos intermediarios en Mexico. Anales del Institute de Biologia. Universidad Nacional Autonoma de Mexico 55, Ser Zoologia 1: 85-89.
- LAMOTHE-ARGUMEDO, R., J. CABALLERO-DELOYA, R. PINEDA-LOPEZ, AND O. MEAVE-GALLEGOS. 1985. Hallazgo de *Paragonimus mexicanus* en nuevo hospedero y una localidad en Mexico. Universidad y Ciencia 2: 41-45.
- LAMOTHE-ARGUMEDO, R., R. P. LOPEZ, AND O. M. GALLEGOS. 1981. Infeccion natural de *Paragonimus mexicanus* en *Didelphis virginiana californica*, en Colima, Mexico. Anales del Institute de Biologia. Universidad Nacional Autonoma de Mexico 52, Ser Zoologia 1: 45-50.
- LANG, B. Z. 1977. Snail and mammalian hosts for *Fasciola hepatica* in eastern Washington. Journal of Parasitology 63: 938-939.
- LANG, B. Z., AND N. O. DRONEN. 1972. *Prosthodendrium naviculum* Macy, 1936, and *Cephalophallus obscurus* Macy and Moore, 1954 (Trematoda: Lecithodendriidae) from *Mustela vison* Schreber in Michigan. Journal of Parasitology 58: 384.
- LANG, B. Z., L. N. GLEASON, AND B. R. FORD. 1968. Morphological differences between population samples of *Metagonimoides oregonensis* Price, 1931 (Trematoda: Heterophyidae) from Oregon and North

- Carolina. Journal of the Elisha Mitchell Scientific Society 84: 281-284.
- LANG, B. Z., AND H. D. VAIL. 1970. *Metagonimoides oregonensis* Price, 1931 (Trematoda: Heterophyidae) from *Mustela vison* Schreber in Michigan. Journal of Parasitology 56: 1031-1032.
- LANKESTER, M. W. 1972. Diseases of moose in southeastern Manitoba 8th North American Moose Conference Workshop, Thunder Bay, Ontario. Ontario Ministry of Natural Resources, Toronto. p. 42-59.
- 1974. *Parelaphostrongylus tenuis* (Nematoda) and *Fascioloides magna* (Trematoda) in moose of southeastern Manitoba. Canadian Journal of Zoology 52: 235-239.
- LANKESTER, M. W., J. B. SNIDER, AND R. E. JERRARD. 1979. Annual maturation of *Paramphistomum cervi* (Trematoda: Paramphistomatidae) in moose, *Alces alces* L. Canadian Journal of Zoology 57: 2355-2357.
- LARSON, O. R., AND W. C. SCHARF. 1975. New helminth records from Minnesota mammals. Proceedings of the Helminthological Society of Washington 42: 174-175.
- LaRUE, G. R., AND D. J. AMEEL. 1937. The distribution of *Paragonimus*. Journal of Parasitology 23: 382-388.
- LaRUE, G. R., AND G. H. BARONE. 1927. Studies on the trematode family Strigeidae (Holostomidae). *Alaria oregonensis*, n. sp. Journal of Parasitology 14: 124.
- 1932. *Alaria oregonensis* from the coyote (Trematoda: Alariidae). Transactions of the American Microscopical Society 51: 199-208.
- LaRUE, G. R., AND N. J. BOSMA. 1927. Studies on the trematode family Strigeidae (Holostomidae). *Neodiplostomum lucidum* n. sp. Journal of Parasitology 14: 124-125.
- LaRUE, G. R., AND E. W. TOWNSEND. 1927. Studies on the trematode family Strigeidae (Holostomidae). *Alaria nasuae* sp. nov. Journal of Parasitology 14: 124.
- 1932. A morphological study of *Alaria nasuae* LaRue and Townsend (Trematoda: Alariidae). Transactions of the American Microscopical Society 51: 252-263.
- LAW, R. G., AND A. H. KENNEDY. 1932. Parasites of fur-bearing animals. Bulletin of the Ontario Department for Game Fish 4: 1-30.
- LEE, HONG-FANG. 1962. Life history of *Heterobilharzia americana* Price, 1929, a schistosome of the raccoon and other mammals in southeastern United States. Journal of Parasitology 48: 728-739.
- LEIBY, P. D. 1961. Intestinal helminths of some Colorado mammals. Journal of Parasitology 47: 311.
- LEIBY, P. D., P. J. SITZMANN, AND D. C. KRITSKY. 1971. Studies on helminths of North Dakota. II. Parasites of the badger, *Taxidea taxus* (Schreber). Proceedings of the Helminthological Society of Washington 38: 225-228.
- LEIDY, J. 1858. Contributions to helminthology. Proceedings of the Academy of Natural Science of Philadelphia 10 (sec. 2V2): 110-112.
- 1888. Trematodes of the muskrat. Proceedings of the Academy of Natural Science of Philadelphia 40 (sec 3v18): 126.
- 1890. Notices of Entozoa. Proceedings of the Academy of Natural Science of Philadelphia 42: 410-418.
- LEIGH, W. H. 1940. Preliminary studies on parasites of upland game birds and fur-bearing mammals in Illinois. Illinois Natural History Survey Bulletin 21: 181-194.
- 1958. *Carneophallus turgidus* sp. nov. (Trematoda: Microphallidae) from the raccoon, *Procyon lotor*, in south Florida. Journal of Parasitology 44: 100-102.
- LEVIN, N. L. 1957. The occurrence of *Panopistus pricei* in Illinois. Journal of Parasitology 43: 379.
- LEVIN, P. P. 1934. Pathological examination of game. Annual Report of the New York State Conservation Department 23: 285-289.
- LLEWELLYN, L. M., AND C. O. HANDLEY. 1945. The cottontail rabbits of Virginia. Journal of Mammalogy 26: 379-390.
- LOCKE, L. N., AND E. E. BROWN. 1965. Occurrence of the fluke, *Procyotrema marsupiformis* Harkema and Miller, 1959, in a Maryland raccoon. Journal of Parasitology 51: 355.
- LOCKER, B. 1953. Parasites of bison in northwestern U.S.A. Journal of Parasitology 39: 58-59.
- LOFTIN, H. 1960. An annotated check-list of trematodes and cestodes and their vertebrate hosts from northwest Florida. Quarterly Journal of the Florida Academy of Science 23: 302-314.



- LOKEN, K. I., J. C. SCHLOTTHAUER, H. J. KURTZ, AND P. D. KARNS. 1965. *Pneumostrongylus tenuis* in Minnesota moose (*Alces alces*). Bulletin of the Wildlife Disease Association 1: 7.
- LONGHURST, W. M., AND J. R. DOUGLAS. 1953. Parasite interrelationships of domestic sheep and Columbian black-tailed deer. Proceedings of the Eighteenth North American Wildlife Conference 18: 168-188.
- LOOSS, A. 1885. Beitrage zur Kenntniss der Trematoden. *Distomum palliatum*, sp. n., und *D. reticulatum*, sp. n. Z. wiss. Zool. xli: 390-446.
- LOTZ, J. M., AND W. F. FONT. 1983. Review of the Lecithodendriidae (Trematoda) from *Eptesicus fuscus* in Wisconsin and Minnesota. Proceedings of the Helminthological Society of Washington 50: 83-102.
- LUMSDEN, R. D., AND C. A. WINKLER. 1962. The opossum, *Didelphis virginiana* (Kerr), a host for the cyathocotylid trematode *Linstowiella szidati* (Anderson, 1944) in Louisiana. Journal of Parasitology 48: 503.
- LUMSDEN, R. D., AND J. A. ZISCHKE. 1961. Seven trematodes from small mammals in Louisiana. Tulane Studies in Zoology 9: 77-85.
- MacKINNON, B. M., AND M. D. B. BURT. 1978. Platyhelminth parasites of muskrats (*Ondatra zibethica*) in New Brunswick. Canadian Journal of Zoology 56: 350-354.
- MACY, R. W. 1932. New bat trematodes of the genera *Plagiorchis*, *Limatulium*, and *Dicrocoelium*. Journal of Parasitology 18: 28-33.
- 1935a. *Gyrabascus brevigastrus*, new genus, new species, a bat trematode, with a note on *Distomum mehelyi* Modlinger. Journal of Parasitology 21: 413-415.
- 1935b. A new trematode, *Limatulium gastroides* (Lecithodendriidae), from the little brown bat, *Myotis lucifugus*. Proceedings of the Helminthological Society of Washington 2: 74-75.
- 1936a. A new genus and species of trematode from the little brown bat and a key to the genera of Pleurogenetinae. Proceedings of the United States National Museum 83: 321-324.
- 1936b. Three new trematodes of Minnesota bats with a key to the genus *Prosthodendrium*. Transactions of the American Microscopical Society 55: 352-359.
- 1936c. A new bat trematode, *Lecithodendrium breckenridgei*, with a key to the species of the genus. Zentralbl. Bakteriologie Parasitenkunde 136: 236-237.
- 1938. A new species of trematode, *Prosthodendrium travassosi*, (Lecithodendriidae) from a Minnesota bat. In A. Neiva, ed. Livro Jubilar Professor Lauro Travassos. Instituto Oswaldo Cruz, Rio de Janeiro, Brazil. pp 291-292.
- 1939. A new trematode *Acanthatrium oregonense* (Lecithodendriidae), from bats of the genus *Myotis*. American Midland Naturalist 22: 640-641.
- 1940a. A new trematode, *Myotitrema asymmetrica*, n. g., n. sp., (Lecithodendriidae) from the little brown bat. Journal of Parasitology 26: 83-84.
- 1940b. Description of three new trematodes with notes on other species of *Acanthatrium* (Lecithodendriidae), and a key to the genus. Journal of Parasitology 26: 279-283.
- 1940c. A new species of trematode, *Allassogonoporus vespertilionis* (Lecithodendriidae), from an Oregon bat, *Myotis californicus caurinus* Miller. Transactions of the American Microscopical Society 59: 48-51.
- 1947. Parasites found in certain Oregon bats with the description of a new cestode, *Hymenolepis gertschi*. The American Midland Naturalist 37: 375-378.
- 1960. The life cycle of *Plagiorchis vespertilionis parorchis*, n. sp., (Trematoda: Plagiorchiidae), and observations on the effects of light on the emergence of the cercaria. Journal of Parasitology 46: 337-345.
- MACY, R. W., AND D. J. MOORE. 1954. On the life cycle and taxonomic relations of *Cephalophallus obscurus* n. g., n. sp., an intestinal trematode (Lecithodendriidae) of mink. Journal of Parasitology 40(3): 328-335.
- MALEK, E. A., L. R. ASH, H. F. LEE, AND M. D. LITTLE. 1961. *Heterobilharzia* infection in the dog and other mammals in Louisiana. Journal of Parasitology 47: 619-623.
- MANTER, H. W., AND J. S. DEBUS. 1945. Two trematodes from a hibernating bat, *Myotis californicus*. Transactions of the American Microscopical Society 64: 297-299.
- MAPES, C. R. 1950. The lancet fluke, a new parasite of the woodchuck. Cornell Veterinarian 40: 346-349.

- MAPES, C. R., AND D. W. BAKER. 1950. The white-tailed deer, a new host of *Dicrocoelium dendriticum* (Rudolphi, 1819) Looss, 1899 (Trematoda: Dicrocoeliidae). Cornell Veterinarian 40: 211-212.
- MARGOLIS, L., AND G. C. PIKE. 1955. Some helminth parasites of Canadian Pacific whales. Journal of the Fisheries Research Board of Canada 12: 97-120
- MARKER, G. E., AND T. C. CHENG. 1960. Intraspecific variations in *Hasstilesia tricolor* (Trematoda: Hasstilesiidae) and notes on the systematics of the family. Proceedings of the Pennsylvania Academy of Science 1934:191-198.
- MARTIN, D. R. 1976. New host and distribution records of helminth parasites of the Mexican free-tail bat, *Tadarida brasiliensis*, from Texas and Louisiana. Proceedings of the Helminthological Society of Washington 43: 85-86.
- MASON, J. JR. 1953. *Brachylaima dolichodirus* n. sp. from a shrew, *Blarina brevicauda*. Journal of the Tennessee Academy of Science 28(1): 38-42, 85.
- MAZZOTTI, L., AND I. MIYAZAKI. 1965. The first record of adult lung flukes *Paragonimus* in Mexico (Trematoda: Troglotremitidae). Japanese Journal of Parasitology 14: 34-36.
- McGEE, S. G. 1980. Helminth parasites of squirrels (Sciuridae) in Saskatchewan. Canadian Journal of Zoology 58: 2040-2050.
- McINTOSH, A. 1933. *Dicrocoelium lasiuri* n. sp. (Trematoda, Digenea) from the liver of a Red Bat. Journal of Parasitology 20: 137-138.
- 1934. Two new species of trematodes, *Scaphiostomum pancreaticum* n. sp. and *Postharmostomum laruei* n. sp., from the chipmunk. Proceedings of the Helminthological Society of Washington 1: 2-4.
- 1935. New host records of parasites. Proceedings of the Helminthological Society of Washington 2: 80.
- 1937. A new trematode, *Postharmostomum noveboracensis*, n. sp. (Brachylaemidae), from a chipmunk. Proceedings of the Helminthological Society of Washington 4: 23-24.
- 1939. A new dicrocoeliid trematode, *Eurytrema komareki*, n. sp., from a white footed mouse. Proceedings of the Helminthological Society of Washington 6: 18-19.
- 1950. *Brachylaima rauschi* n. sp. from an Arctic lemming, *Dicrostonyx groenlandicus rubricatus* (Richardson, 1839). Journal of Parasitology 36 (Supplement 6): 20.
- McINTOSH, A., AND G. E. McINTOSH. 1934. A new trematode, *Notocotylus hassalli*, n. sp. (Notocotylidae), from a meadow mouse. Proceedings of the Helminthological Society of Washington 1: 36-37.
- 1935. Additional notes on two bat parasites, *Dicrocoelium lasiuri* McIntosh, 1933 (Trematoda: Dicrocoeliidae) and *Litomosa americana* McIntosh, 1932 (Nematoda: Filariidae). Proceedings of the Helminthological Society of Washington 2: 60-62.
- McKEEVER, S. 1958. Observations on *Paragonimus kellicotti* Ward from Georgia. Journal of Parasitology 44: 324-327.
- 1971. *Zonorchis komareki* (McIntosh, 1939) (Trematoda: Dicrocoeliidae) from *Reithrodontomys humulis* (Audubon and Bachman). Journal of Parasitology 57: 865.
- McKENZIE, C. E., AND H. E. WELCH. 1979. Parasite fauna of the muskrat, *Ondatra zibethica* (Linnaeus, 1766), in Manitoba, Canada. Canadian Journal of Zoology 57: 640-646.
- McNEIL, M. A., M. E. RAU, AND F. MESSIER. 1984. Helminths of wolves (*Canis lupus* L.) from southwestern Quebec. Canadian Journal of Zoology 62: 1659-1660.
- MEYER, M. C., AND J. R. REILLY. 1950. Parasites of muskrats in Maine. American Midland Naturalist 44: 467-477.
- MIGAKI, G., D. VAN DYKE, AND R. C. HUBBARD. 1971. Some histopathological lesions caused by helminths in marine mammals. Journal of Wildlife Diseases 7: 281-289.
- MILLER, G. C. 1984. Longevity of *Pharyngostomoides procyonis* (Strigeoidea: Diplostomatidae) in the raccoon, *Procyon lotor*. Journal of Parasitology 70: 284-285.
- MILLER, G. C., AND R. HARKEMA. 1960. A new locality record for *Heterobilharzia americana* Price, 1929. Journal of Parasitology 46: 206.
- 1962. Studies on helminths of North Carolina vertebrates. II. *Ascocotyle ampullacea* sp. n. (Trematoda: Heterophyidae) from raccoon. Journal of Parasitology 48: 427-428.
- 1963. Helminths of North Carolina vertebrates III. The synonymy of *Phagicola diminuta* (Stunkard and Haviland, 1924) and *Phagicola lageniformis* Chandler, 1941 (Trematoda: Heterophyidae). Proceedings of

- the Helminthological Society of Washington 30: 107-110.
- 1964. Studies on helminths of North Carolina vertebrates. V. Parasites of the mink, *Mustela vison* Schreber. Journal of Parasitology 50: 717-720.
- 1968. Helminths of some wild mammals in the southeastern United States. Proceedings of the Helminthological Society of Washington 35: 118-125.
- 1970. Helminths of the opossum (*Didelphis virginiana*) in North Carolina. Proceedings of the Helminthological Society of Washington 37: 36-39.
- MILLER, G. C., R. L. PRICE, AND D. A. WILSON. 1974. Helminths of the short-tailed shrew, *Blarina brevicauda*, in North Carolina. Journal of Parasitology 60: 523-524.
- MILLER, M. J. 1940. A new trematode, *Fibricola laruei*, from the raccoon in Canada. Canadian Journal of Research, Section D, Zoological Sciences 18: 333-335.
- MIYAZAKI, I., AND Y. ISHII. 1968. Studies on the Mexican lung flukes, with special reference to a description of *Paragonimus mexicanus* sp. nov. (Trematoda: Troglotremitidae). Japanese Journal of Parasitology 17: 445-453.
- MIYAZAKI, I., T. KIFUNE, AND R. LAMOTHE-ARGUMEDO. 1980. Taxonomic and biological studies on the lung flukes of Central America. Department of Parasitology, School of Medicine, Fukuoka University. Occasional Publication No. 2.
- MOORE, E. R., AND G. C. MOORE. 1947. The helminth parasites of cottontail rabbits in Alabama, with notes on the arthropod *Linguatula serrata*. Journal of Mammalogy 28: 279-284.
- MORGAN, B. B., AND E. F. WALLER. 1940. A survey of the parasites of the Iowa cottontail (*Sylvilagus floridanus mearnsi*). Journal of Wildlife Management 4: 21-26.
- MURRELL, K. D. 1965. Stages in the life cycle of *Wardius zibethicus* Barker, 1915. Journal of Parasitology 51: 600-604.
- NEILAND, K. A. 1961. Suspected role of parasites in non-rookery mortality of fur seals (*Callorhinus ursinus*). Journal of Parasitology 47: 732.
- 1962. Two new species of *Prosthodendrium* Dollfus, 1931 (Trematoda: Lecithodendriidae) from the little brown bat in southeastern Alaska. Journal of Parasitology 48: 400-401.
- NETTLES, V. F., A. K. PRESTWOOD, AND W. R. DAVIDSON. 1975. Severe parasitism in an opossum. Journal of Wildlife Diseases 11: 419-420.
- NICKEL, P. A., AND M. F. HANSEN. 1967. Helminths of bats collected in Kansas, Nebraska and Oklahoma. American Midland Naturalist 78: 481-486.
- NORRIS, K. S. 1966. Whales, dolphins and porpoises. University of California Press, Berkeley and Los Angeles.
- OLEXIK, W. A., A. E. PERRY, AND W. E. WILHELM. 1969. Ectoparasites and helminth endoparasites of the tree squirrels of southwest Tennessee. Journal of the Tennessee Academy of Science 44: 4-6.
- OLIVIER, L. 1938. A new trematode, *Allasogonoporus marginalis*, from the muskrat. Journal of Parasitology 24: 155-160.
- OLSEN, O. W. 1948. Wild rabbits as reservoir hosts of the common liver fluke, *Fasciola hepatica*, in southern Texas. Journal of Parasitology 34: 119-123.
- 1949a. Incidence of helminth parasites in beavers from the Platte River in Weld County, Colorado. Journal of the Colorado-Wyoming Academy of Science 4: 64.
- 1949b. White-tailed deer as a reservoir host of the large American liver fluke. Veterinary Medicine 44: 26-30.
- OLSEN, O. W., AND R. FENSTERMACHER. 1943. The helminths of North American deer with special reference to those of the white-tailed deer (*Odocoileus virginianus borealis*) in Minnesota. University of Minnesota Agriculture Experimental Station Technical Bulletin 159.
- PARKER, M. V. 1950. *Euryhalmis squamala* (Rudolphi), 1819 reported from a racoon. Journal of Parasitology 36: 89.
- PATTON, S., A. RABINOWITZ, S. RANDOLPH, AND S. S. JOHNSON. 1986. A coprological survey of parasites of wild neotropical Felidae. The Journal of Parasitology 72: 517-520.
- PEARSON, J. C. 1954. The life cycles of *Alaria arisaemoides* Augustine and Uribe, 1927, and *Alaria canis* LaRue and Fallis, 1936 (Trematoda: Diplostomidae), parasites of the red fox, *Vulpes fulva* (Desmarest). Journal of Parasitology 40: 37-38.
- PENCE, D. B., AND W. P. MEINZER. 1979. Helminth parasitism in the coyote, *Canis latrans*, from the Rolling Plains of Texas. International Journal of Parasitology 9: 339-344.

- PENN, G. H. 1942. Parasitological survey of Louisiana muskrats. *Journal of Parasitology* 28: 348-349.
- PENNER, L. R. 1938. *Schistosomatium* from the muskrat, *Ondatra zibethica*, in Minnesota and Michigan. *Journal of Parasitology* 24: 26.
- 1941. The status of *Urotrema shillingeri* Price, 1931 (Trematoda: Urotrematidae). *Transactions of the American Microscopical Society* 60: 359-364.
- PENNER, L. R., C. F. HELMBOLDT, AND A. L. GRISWOLD. 1954. *Eurytrema procyonis* in a raccoon from Connecticut. *Proceedings of the Helminthological Society of Washington* 21: 34-35.
- PETERSON, R. L. 1955. North American moose. University of Toronto Press, Toronto (see pp 181-192).
- POOLE, B. C., K. CHADEE, AND T. A. DICK. 1983. Helminth parasites of pine marten, *Martes americana* (Turton), from Manitoba, Canada. *Journal of Wildlife Diseases* 19: 10-13.
- PREMVATI, G., AND T. D. BAIR. 1979. Trematode parasites of the opossum, *Didelphis virginiana*, from Florida. *Proceedings of the Helminthological Society of Washington* 46: 207-212.
- PRESIDENTE, P. J. A., AND R. O. RAMSDEN. 1975. *Paragonimus kellicotti* infection in wild carnivores in southwestern Ontario: II. Histopathologic Features. *Journal of Wildlife Diseases* II: 364-375.
- PRESTWOOD, A. K., F. E. KELLOGG, S. R. PURSGLOVE, AND F. A. HAYES. 1975. Helminth parasitisms among intermingling insular populations of white-tailed deer, feral cattle, and feral swine. *Journal of the American Veterinary Medical Association* 166: 787-789.
- PRESTWOOD, A. K., J. F. SMITH, AND W. E. MAHAN. 1970. Geographic distribution of *Gongylonema pulchrum*, *Gongylonema verrucosum*, and *Paramphistomum liorchis* in white-tailed deer of the south-eastern United States. *Journal of Parasitology* 56: 123-127.
- PRICE, E. W. 1929. A synopsis of the trematode family Schistosomidae with descriptions of new genera and species. *Proceedings of the U. S. National Museum* 75: 1-39.
- 1931a. *Metagonimoides oregonensis*, a new trematode from a raccoon. *Journal of the Washington Academy of Science* 21: 405-407.
- 1931b. Four new species of trematode worms from the muskrat, *Ondatra zibethica*, with a key to the trematode parasites of the muskrat. *Proceedings of the United States National Museum* 79: 1-13.
- 1932. The trematode parasites of marine mammals. *Proceedings of the United States National Museums* 81: L68.
- 1934. A new trematode from a beaver. *Proceedings of the Helminthological Society of Washington* 1: 1-2.
- 1943. A redescription of *Heterobilharzia americana* Price (Trematoda: Schistosomatidae). *Proceedings of the Helminthological Society of Washington* 10: 85-86.
- PRICE, H. F. 1939. Life history of *Schistosomatium douthitti* (Cort). *American Journal of Hygiene* 13: 685-727.
- PRICE, R. L., AND D. M. HARMAN. 1983. Helminths from the raccoon, *Procyon lotor litoreus* Nelson and Goldman 1930, on St. Catherines Island, Georgia. *Proceedings of the Helminthological Society of Washington* 50: 343-344.
- PURSGLOVE, S. R., A. K. PRESTWOOD, T. R. RIDGEWAY, AND F. A. HAYES. 1977. *Fascioloides magna* infection in white-tailed deer of southeastern United States. *Journal of the American Veterinary Medical Association* 171: 936-938.
- RAMSDEN, R. O., AND P. J. A. PRESIDENTE. 1975. *Paragonimus kellicotti* infection in wild carnivores in southwestern Ontario: I. Prevalence and gross pathological features. *Journal of Wildlife Diseases* 11: 136-141.
- RANKIN, J. S. 1946. Helminth parasites of birds and mammals in western Massachusetts. *The American Midland Naturalist* 35: 756-768.
- RANSOM, B. H. 1920. Synopsis of the trematode family Heterophyidae with descriptions of new genus and five new species. *Proceedings of the United States National Museum* 57: 527-573.
- RAUSCH, R. 1946a. The raccoon, a new host for *Microphallus* sp., with additional notes on *M. ovatus* from turtles. *Journal of Parasitology* 32: 208-209.
- 1946b. Parasites of Ohio muskrats. *Journal of Wildlife Management* 10: 70.
- 1952a. Helminths from the round-tailed muskrat, *Neofiber alleni nigrescens* Howell, with descriptions of two new species. *Journal of Parasitology* 38: 151-156.
- 1952b. Studies on the helminth fauna of Alaska. XI. Helminth parasites of microtine rodents-taxonomic

- considerations. *Journal of Parasitology* 38: 415-444.
- 1953. Studies on the helminth fauna of Alaska. XIII. Disease in the sea otter, with special reference to helminth parasites. *Ecology* 34: 584-604.
- 1959. Studies on the helminth fauna of Alaska. XXXVI. Parasites of the wolverine, *Gulo gulo* L., with observations on the biology of *Taenia twitchelli* Schwartz, 1924. *Journal of Parasitology* 45: 465-484.
- 1962. Helminths of the shrew-mole *Neurotrichus gibbsii* (Baird) in Oregon. *Journal of Parasitology* 48: 813-817.
- RAUSCH, R. L., AND F. H. FAY. 1966. Studies on the helminth fauna of Alaska. XLIV. Revision of *Ogmogaster* Jagerskiold, 1891, with a description of *O. pentalineatus* sp. n. (Trematoda: Notocotylidae). *Journal of Parasitology* 52: 26-38.
- RAUSCH, R. L., F. H. FAY, AND F. S. L. WILLIAMSON. 1983. Helminths of the arctic fox, *Alopex lagopus* (L.), in Greenland. *Canadian Journal of Zoology* 61: 1847-1851.
- RAUSCH, R., AND B. LOCKER. 1951. Studies on the helminth fauna of Alaska II. On some helminths parasitic in the sea otter, *Enhydra lutris* (L.). *Proceedings of the Helminthological Society of Washington* 18: 77-81.
- RAUSCH, R. L., AND D. W. RICE. 1970. *Ogmogaster trilineatus* sp. n. (Trematoda: Notocotylidae) from the fin whale, *Balaenoptera physalus* L. *Proceedings of the Helminthological Society of Washington* 37: 196-200.
- RAUSCH, R., AND J. D. TINER. 1948. Studies on the parasitic helminths of the north central States. 1. Helminths of Sciuridae. *The American Midland Naturalist* 39: 728-747.
- 1949. Studies on the parasitic helminths of the north central States. II. Helminths of voles (*Microtus* spp.) preliminary report. *The American Midland Naturalist* 41: 665-694.
- RAUSCH, R., AND F. S. L. WILLIAMSON. 1959. Studies on the helminth fauna of Alaska. XXXIV. The parasites of wolves, *Canis lupus* L. *Journal of Parasitology* 45: 395-403.
- READ, C. P. 1948. Strigeids from Texas mink with notes on the genus *Fibricola* Dubois. *Transactions of the American Microscopical Society* 67: 165-168.
- REYNOLDS, B. D. 1938. *Brachylaemus peromysci* n. sp. (Trematoda) from the deer mouse. *Journal of Parasitology* 24: 245-248.
- RICE, D. W., AND A. A. WOLMAN. 1971. The life history and ecology of the gray whale (*Eschrichtius robustus*). *American Society of Mammalogists Special Publication No. 3*: 140 pp.
- RICE, E. W., AND O. B. HECK. 1975. A survey of the gastrointestinal helminths of the muskrat, *Ondatra zibethicus*, collected from two localities in Ohio. *Ohio Journal of Science* 75: 263-264.
- RIDER, C. L., AND R. W. MACY. 1947. Preliminary survey of the helminth *Hymenolepis ondatrae* n. sp. *Transactions of the American Microscopical Society* 66: 176-181.
- RIDGWAY, S. H., AND M. D. DAILEY. 1972. Cerebral and cerebellar involvement of trematode parasites in dolphins and their possible role in stranding. *Journal of Wildlife Diseases* 8: 33-43.
- RIDGWAY, S. H., AND D. G. JOHNSTON. 1965. Two interesting disease cases in wild cetaceans. *American Journal of Veterinary Research* 26: 771-775.
- RIGBY, M. D., AND W. THRELFALL. 1981. Helminth parasites of the muskrat (*Ondatra zibethicus* (L)) in Newfoundland. *Canadian Journal of Zoology* 59: 2172-2176.
- ROBINSON, E. J., JR. 1959. New hosts for *Hasstilesia tricolor* and *H. texensis* (Trematoda: Brachylaimidae), and an emended diagnosis for the latter. *Transactions of the American Microscopical Society* 78: 317-322.
- RODENBURG, G. W. AND D. B. PENCE. 1978. Circulation of helminth species in a rodent population from the high plains of Texas. *Occasional Papers of the Texas Technical University Museum No. 56*: 1-9.
- ROWAN, W. B. 1955. The life cycle and epizootiology of the rabbit trematode, *Hasstilesia tricolor* (Stiles and Hassall, 1894) Hall, 1916 (Trematoda: Brachylaemidae). *Transactions of the American Microscopical Society* 74: 1-21.
- SAMUEL, W. M., M. W. BARRETT, AND G. M. LYNCH. 1976. Helminths in moose of Alberta. *Canadian Journal of Zoology* 54: 307-312.
- SAMUEL, W. M., AND W. A. LOW. 1970. Parasites of the collared peccary from Texas. *Journal of Wildlife Diseases* 6: 16-23.

- SAMUEL, W. M., S. RAMALINGAM, AND L. N. CARBYN. 1978. Helminths in coyotes (*Canis latrans* Say), wolves (*Canis lupus* L.), and red foxes (*Vulpes vulpes* L.) of southwestern Manitoba. *Canadian Journal of Zoology* 56: 2614-2617.
- SAMUEL, W. M., AND D. O. TRAINER. 1969. A technique for survey of some helminth and protozoan infections of white-tailed deer. *Journal of Wildlife Management* 33: 888-894.
- SAOUD, M. F. A. 1964. On a new trematode, *Tremajoannes buckleyi* gen. et sp. nov. (Lecithodendriidae) from Central American bats with some notes on *Phaneropsolus orbicularis* (Diesing, 1850) Braun, 1901. *Journal of Helminthology* 38: 97-108.
- SAWYER, T. K. 1958. *Metagonimoides oregonensis* Price, 1931 from a Georgia raccoon with a note on *Sellacotyle mustelae* Wallace, 1935. *Journal of Parasitology* 44: 63.
- 1961. The American otter, *Lutra canadensis vaga*, as a host for two species of trematodes previously unreported from North America. *Proceedings of the Helminthological Society of Washington* 28: 175-176.
- SCHAD, G. A. 1954. Helminth parasites of mice in northeastern Quebec and the coast of Labrador. *Canadian Journal of Zoology* 32: 215-224.
- 1956. Helminths recovered from deer mice, *Peromyscus maniculatus*, trapped in the Morgan Arboretum, Macdonald College, province of Quebec. *Canadian Journal of Zoology* 34: 208.
- SCHAFFER, G. D., W. R. DAVIDSON, V. F. NETTLES, AND E. A. ROLLOR, III. 1981. Helminth parasites of translocated raccoons (*Procyon lotor*) in the southeastern United States. *Journal of Wildlife Diseases* 17: 217-227.
- SCHLEGEL, M. W., S. E. KNAPP, AND R. E. MILLEMANN. 1968. "Salmon poisoning" disease. V. Definitive hosts of the trematode vector, *Nanophyetus salmincola*. *Journal of Parasitology* 54: 770-774.
- SCHROEDER, R. E., AND W. H. LEIGH. 1965. The life history of *Ascocotyle pachycystis* sp. n., a trematode (Digenea: Heterophyidae) from the raccoon in south Florida. *Journal of Parasitology* 51: 594-599.
- SCHROEDER, R. J., C. A. DELLI QUADRI, R. W. MCINTYRE, AND W. A. WALKER. 1973. Marine mammal disease surveillance program in Los Angeles county. *Journal of the American Veterinary Medical Association* 163: 580-581.
- SEALANDER, J. A. 1943. Notes on some parasites of the mink in southern Michigan. *Journal of Parasitology* 29: 361-362.
- SEAMSTER, A., AND A. L. STEVENS. 1948. A new species of *Prosthodendrium* (Trematoda: Lecithodendriidae) from the large brown bat. *Journal of Parasitology* 34: 108-110.
- SEESEEE, F. M., M. C. STERNER, AND D. E. WORLEY. 1983. Helminths of the coyote (*Canis latrans* Say) in Montana. *Journal of Wildlife Diseases* 19: 54-55.
- SELF, J. T., AND T. J. MCKNIGHT. 1950. Platyhelminths from fur bearers in the Wichita Mountains Wildlife Refuge, with especial reference to *Oochoristica* spp. *American Midland Naturalist* 43: 58-61.
- SENGER, C. M. 1953. *Xiphidiotrema lockerae*, gen. et sp. nov. (Trematoda: Troglotrematidae) from shrews in the northwestern United States. *Journal of Parasitology* 39: 341-343.
- 1963. Some parasites of Montana deer. *Montana Wildlife Autumn*: 5-13.
- SENGER, C. M., AND J. W. BATES. 1957. The occurrence of *Hymenolepis evaginata* and *H. ondatrae* in Utah muskrats. *Proceedings of the Helminthological Society of Washington* 24: 141-142.
- SENGER, C. M., AND R. W. MACY. 1952. Helminths of northwest mammals. Part III. The description of *Euryhalmis pacificus* n. sp., and notes on its life cycle. *Journal of Parasitology* 38: 481-486.
- SENGER, C. M., AND K. A. NEILAND. 1955. Helminth parasites of some fur-bearers of Oregon. *Journal of Parasitology* 41: 637-638.
- SHAW, J. N. 1947. Some parasites of Oregon wild life. *Station Technical Bulletin* 11, Oregon State College. Agricultural Experimental Station, Corvallis.
- SHOOP, W. L., AND K. C. CORKUM. 1982. Progenesis reconsidered in *Ribeiroia ondatrae* Babero, 1972 nec Price, 1931, a synonym of *Gyrosoma singulare* (Trematoda: Psilostomidae). *Journal of Parasitology* 68: 424.
- SHORT, R. B. AND A. I. GROSSMAN. 1986. Chromosomes of *Heterobilharzia americana* (Digenea: Schistosomatidae) from Texas. *Journal of Parasitology* 72: 807-809.
- SHULTS, L. M. 1978. *Pricitrema phocae* and *Pricitrema eumetopii* spp. n. (Trematoda: Heterophyidae) from pinnipeds in the North

- Pacific. Canadian Journal of Zoology 56: 382-385.
- 1982. Helminths of the spotted seal, *Phoca largha*, from the Bering sea. Journal of Wildlife Diseases 18: 59-62.
- SMITH, C. F. 1954. Studies on *Quinqueserialis hassalli* and taxonomic considerations of the species of *Quinqueserialis* (Trematoda: Notocotylidae). Journal of Parasitology 40: 209-215.
- SMITH, F. R. 1938. Muskrat investigations in Dorchester County, MD., 1930-34. U. S. Department of Agriculture Circular No. 474: 1-24.
- SMITH, F. R., AND W. THRELFALL. 1973. Helminths of some mammals from Newfoundland. The American Midland Naturalist 90: 215-218.
- SMITH, H. J. 1978. Parasites of red foxes in New Brunswick and Nova Scotia. Journal of Wildlife Diseases 14: 366-370.
- SMITH, H. J., AND R. McG. ARCHIBALD. 1967. On the incidence of gastrointestinal parasites in Nova Scotia beaver. Canadian Journal of Zoology 45: 659-661.
- SMITH, J. D., E. M. ADDISON; D. G. JOACHIM; AND L. M. SMITH. 1986. Helminth parasites of Canada lynx (*Felis canadensis*) from Northern Ontario. Canadian Journal of Zoology 64: 358-364.
- SMITH, R. J. 1958. The miracidium of *Wardius zibethicus* (Trematoda: Paramphistomatidae). Journal of Parasitology 44: 195.
- SOGANDARES-BERNAL, F. 1961. *Sellacotyle vitellosa*, a new troglotrematid trematode from the mink in Louisiana. Journal of Parasitology 47: 911-912.
- STAFFORD, J. 1905. Trematodes from Canadian vertebrates. Zoologischer Anzeiger 28: 681-694.
- STELFOX, J. G. 1962. Liver, lungs and larvae. Parasites and diseases in moose, deer and elk in Alberta. Alberta Lands, Forests, and Wildlife Annual Report 5: 5-12.
- STILES, C. W., AND A. HASSALL. 1894a. A preliminary catalogue of the parasites contained in the collections of the United States Bureau of Animal Industry, United States Army Medical Museum, Biological Department of the University of Pennsylvania (coll. Leidy) and in coll. Stiles and coll. Hassall. Veterinary Magazine 1: 245-253.
- 1894b. A new species of intestinal fluke (*Distoma tricolor*) in the cotton-tail rabbit (*Lepus sylvaticus* Bachman) and in the Northern Hare (*L. americanus* Erxleben). Veterinary Magazine 1: 729-737.
- STOCK, T. M., AND M. W. BARRETT. 1983. Helminth parasites of the gastrointestinal tracts and lungs of moose (*Alces alces*) from Cypress Hills, Alberta, Canada. Proceedings of the Helminthological Society of Washington 50: 246-251.
- STONE, J. E., AND D. B. PENCE. 1978. Ecology of helminth parasitism in the bobcat from west Texas. Journal of Parasitology 64: 295-302.
- STRINGER, R. P., R. HARKEMA, AND G. C. MILLER. 1969. Parasites of rabbits in North Carolina. Journal of Parasitology 55: 328.
- STROHLEIN, D. A., AND B. M. CHRISTENSEN. 1983. Metazoan parasites of the eastern cottontail rabbit in western Kentucky. Journal of Wildlife Diseases 19: 20-23.
- STROUD, R. K., AND M. D. DAILEY. 1978. Parasites and associated pathology observed in pinnipeds stranded along the Oregon coast. Journal of Wildlife Diseases 14: 292-298.
- STUNKARD, H. W. 1947. A dicrocoeliid trematode, *Eurytrema vulpis* n. sp. provis., from the pancreatic ducts of the red fox. Journal of Parasitology 33: 459-466.
- STUNKARD, H. W., AND C. H. ALVEY. 1929. A new liver fluke, *Zalophotrema hepaticum*, from the California sea-lion, *Zalophus californianus*. Journal of Parasitology (abstract) 16: 106.
- 1930. The morphology of *Zalophotrema hepaticum*, with a review of the trematode family Fasciolidae. Parasitology 22: 326-333.
- STUNKARD, H. W., AND C. B. HAVILAND. 1924. Trematodes from the rat. American Museum of Novities 126: 1-10.
- STUNKARD, H. W., J. R. UZMANN. 1955. The killifish, *Fundulus heteroclitus*, second intermediate host of the trematode, *Ascocotyle* (*Phagicola*) *diminuta*. Biological Bulletin 109: 475-483.
- SWALES, W. E. 1933. A review of Canadian helminthology: II. Additions to Part I, as determined from a study of parasitic helminths collected in Canada. Canadian Journal of Research, Section D, Zoological Sciences 8: 478-482.
- 1935. The life cycle of *Fascioloides magna* (Bassi, 1875), the large liver fluke of ruminants, in Canada with observations on the bionomics of the larval stages and the intermediate hosts, pathology of

- Fascioloidiasis magna*, and control measures. Canadian Journal of Research, Section D, Zoological Sciences 12: 177-215.
- 1936. Further studies on *Fascioloides magna* (Bassi, 1975) Ward, 1917, as a parasite of ruminants. Canadian Journal of Research, Section D, Zoological Sciences 14: 83-95.
- SWANSON, D. O. 1960. A study of the helminth parasites of the George Reserve deer herd. Wildlife Review 98: 74 (abstract).
- SWANSON, G., AND A. B. ERICKSON. 1946. *Alaria taxideae* n. sp., from the badger and other mustelids. Journal of Parasitology 32: 17-19.
- SWEATMAN, G. K. 1952. Endoparasites of muskrats in the vicinity of Hamilton, Ontario. Journal of Mammalogy 33: 248-250
- SWEENEY, J. C. 1974. Common diseases of pinnipeds. Journal of the American Veterinary Medical Association 165: 805-810.
- SWEENEY, J. C., AND W. G. GILMARTIN. 1974. Survey of diseases in free-living California sea lions. Journal of Wildlife Diseases 10: 370-376.
- THATCHER, V. E. 1967. *Paragonimus* in some wild and domestic animals of Panama. Transactions of the American Microscopical Society 86: 335-336.
- THORNTON, J. E., R. R. BELL, AND M. J. REARDON. 1974. Internal parasites of coyotes in southern Texas. Journal of Wildlife Diseases 10: 232-236.
- THREFALL, W. 1967. Parasites of moose (*Alces alces*) in Newfoundland. Journal of Mammalogy 48: 668-669.
- TINER, J. D., AND T. H. CHIN. 1948. The occurrence of *Ascaris lumbricoides* L. 1758 in the muskrat, *Ondatra zibethica* L. Journal of Parasitology 34: 253.
- TURNER, H. M., AND S. McKEEVER. 1980. *Ityogonimus scalopi* sp. n. (Trematoda: Brachylaemidae) from the eastern mole, *Scalopus aquaticus* (Linnaeus 1758). Journal of Parasitology 66: 823-824.
- UBELAKER, J. E. 1966. Parasites of the gray bat, *Myotis grisescens*, in Kansas. American Midland Naturalist 75: 199-204.
- 1971. Parasites of the evening bat, *Nycticeius humeralis*, in Iowa. Texas Journal of Science 22: 425-427.
- UBELAKER, J. E., AND M. D. DAILEY. 1966. Taxonomy of the genus *Brachylaima* Dujardin (Trematoda: Digenea) with description of *B. chiapensis* sp. n. from *Peromyscus guatemalensis* in Mexico. Journal of Parasitology 52: 1062-1065.
- UBELAKER, J. E. AND T. H. KUNZ. 1971. Parasites of the evening bat, *Nycticeius humeralis*, in Iowa. Texas Journal of Science 22: 425-427.
- VILLELLA, J. B. 1953. *Retinella identata* (Say), a first intermediate host of *Entosiphonus thompsoni* Sinitsin (1931) (Trematoda: Brachylaemidae). Journal of Parasitology 39: 667.
- 1954. *Ventridens ligera*, a new first intermediate host of *Panopistius pricei* Sinitsin, 1931 (Trematoda: Brachylaimatidae). Journal of Parasitology 40: 470-472.
- WALKER, M. L., AND W. W. BECKLUND. 1970. Checklist of the internal and external parasites of deer, *Odocoileus hemionus* and *O. virginianus*, in the United States and Canada. Index Catalogue for Medical Veterinary Zoology Specimens, Publication No. 1. United States Department of Agriculture.
- WALLACE, F. G. 1931. Lung flukes of the genus *Paragonimus* in American mink. Journal of the Veterinary Medical Association 31: 229-234.
- 1932. The life history of *Trogloitrema mustelae* n. sp. (abstract). Journal of Parasitology 19: 164.
- 1934. Parasites collected from the moose, *Alces americanus*, in northern Minnesota. Journal of the American Veterinary Medical Association 37: 770-775.
- 1935. A morphological and biological study of the trematode, *Sellacotyle mustelae* n. g., n. sp.. Journal of Parasitology 21: 143-166.
- WALLACE, F. G., AND L. R. PENNER. 1939. A new liver fluke of the genus *Opisthorchis*. Journal of Parasitology 25: 437-440.
- WALLACE, R. A., AND B. G. WILSON. 1965. *Metagonimoides oregonensis* Price, 1931 (Trematoda: Heterophyidae) from the raccoon in middle Tennessee. Journal of Parasitology 51: 391.
- WARD, J. W. 1946. A preliminary study of the occurrence of internal parasites of animals in Mississippi. Proceedings of the Helminthological Society of Washington 13: 12-14.
- WATSON, T. G. 1981. Growth of *Metorchis conjunctus* (Cobbold, 1860) Looss, 1899 (Trematoda: Opisthorchiidae) in the bile ducts of various definitive hosts. Canadian Journal of Zoology 59: 2014-2019.



- WATSON, T. G., V. F. NETTLES, AND W. R. DAVIDSON. 1981. Endoparasites and selected infectious agents in bobcats (*Felis rufus*) from West Virginia and Georgia. *Journal of Wildlife Diseases* 17: 547-554.
- WEBSTER, G. A., AND R. W. WOLFGANG. 1956. *Alaria canadensis* sp. nov. and *Euryhelmsis pyriformis* sp. nov. from the skunk *Mephitis mephitis* in Quebec. *Canadian Journal of Zoology* 34: 595-601.
- WEBSTER, W. A., AND G. A. CASEY. 1973. Studies on the parasites of Chiropter. III. Helminths from various bat species collected in British Columbia. *Canadian Journal of Zoology* 51: 633-636.
- WHITAKER, J. O., JR., AND R. E. MUMFORD. 1971. Notes on a collection of bats taken by mist-netting at an Indiana cave. *American Midland Naturalist* 85: 277-279.
- WHITLOCK, S. C. 1939. The prevalence of disease and parasites in whitetail deer. *Proceedings of the Fourth North American Wildlife Conference* 4: 244-249.
- WIGGINS, J. P., M. COSGROVE, AND H. ROTHENBACHER. 1980. Gastrointestinal parasites of the eastern cottontail (*Sylvilagus floridanus*) in central Pennsylvania. *Journal of Wildlife Diseases* 16: 541-544.
- WILLIAMS, R. R. 1960. *Acanthatrium lunatum* n. sp., a parasite of the big brown bat and a key to the described species of *Acanthatrium* (Trematoda: Lecithodendriidae). *Ohio Journal of Science* 60(6): 323-326.
- WILLIAMS, R. R. 1960. *Acanthatrium lunatum* n. sp., a parasite of the big brown bat and a key to the described species of *Acanthatrium* (Trematoda: Lecithodendriidae). *Ohio Journal of Science*, 60 (6): 323-326.
- 1961. A bat trematode, *Prosthodendrium naviculum* Macy, 1936, naturally occurring in raccoons. *Journal of Parasitology* 47: 640.
- 1962. Trematodes from the cavebat, *Myotis sodalis* Miller and Allen. *The Ohio Journal of Science* 5: 273.
- WILLIAMS, R. R., AND D. G. MYER. 1964. *Metagonimoides oregonensis* Price, 1931 occurring in Ohio raccoons (Trematoda: Heterophyidae). *Ohio Journal of Science* 64: 400.
- WITTRÖCK, D. D. 1976. Structure of the cirrus tegument of *Quinqueseirialis* (*Quinqueseirialis*) (Trematoda: Notocotylidae). *Journal of Parasitology* 62: 834-836.
- WITTRÖCK, D. D., AND G. L. HENDRICKSON. 1979. Helminths of shrews, *Blarina brevicauda* and *Sorex cinereus* in Iowa. *Journal of Parasitology* 65: 985-986.
- WITTRÖCK, D. D., AND M. J. ULMER. 1974. Helminths of badgers, *Taxidea taxus* (Schreber), in northwest Iowa. *Iowa State Journal of Research* 48: 319-327.
- WOBESER, G., W. RUNGE, AND R. R. STEWART. 1983. *Metorchis conjunctus* (Cobbold, 1860) infection in wolves (*Canis lupus*), with pancreatic involvement in two animals. *Journal of Wildlife Diseases* 19: 353-356.
- WOODARD, J. C., S. G. ZAM, D. K. CALDWELL, AND M. C. CALDWELL. 1969. Some parasitic diseases of dolphins. *Pathologia Veterinaria* 6: 257-272.
- WOODHEAD, A. E., AND H. MALEWITZ. 1936. *Mediogonimus ovalacus*, n. g., n. sp.. *Journal of Parasitology* 22: 273-275.
- WOOTTON, D. M., AND K. D. MURRELL. 1967. *Ptyalincola ondatrae*, gen. et sp. n. (Trematoda: Brachylaimidae), a fluke inhabiting the salivary glands of muskrats. *Journal of Parasitology* 53: 739-742.
- WORLEY, D. E., J. C. FOX, J. B. WINTERS, R. H. JACOBSON, AND K. R. GREER. 1976. Helminth and arthropod parasites of grizzly and black bears in Montana and adjacent areas. *Papers and Proceeding of the Third International Conference on Bears*, Paper 45, pp 455-463.
- ZAJAC, A. M., AND J. F. WILLIAMS. 1980. Infection with *Schistosomatium douthitti* (Schistosomatidae) in the meadow vole (*Microtus pennsylvanicus*) in Michigan. *Journal of Parasitology* 66: 366-367.
- ZENCHAK, J. J., AND J. E. HALL. 1971. Helminths from *Peromyscus leucopus* and *P. maniculatus* in West Virginia. *Journal of Parasitology* 57: 542.
- ZYLL DE JONG, C. G. VAN. 1966. Parasites of the Canada lynx, *Felis* (*Lynx*) *canadensis* (Kerr). *Canadian Journal of Zoology* 44: 499-509.

## SUPPLEMENTARY READING

- AMEEL, D. J. 1931a. Life history of the North American lung fluke of mammals. *Journal of Parasitology* 18: 114.
- 1931b. Life history of the North American lung fluke of mammals. *Journal of Parasitology* 18: 264-268.
- ANDERSON, R. C. 1962. The helminth and arthropod parasites of the white-tailed deer (*Odocoileus virginianus*): A general review. *Transactions of the Royal Canadian Institute* 34: 57-92.
- BARBER, D. L., AND L. L. LOCKARD. 1973. Some helminths from mink in southwestern Montana, with a checklist of their internal parasites. *Great Basin Naturalist* 33: 53-60.
- BRENES, R. R., R. ZELEDON, AND G. ROJAS. 1968. The findings of *Paragonimus* sp. in mammals, crabs, and snails in Costa Rica. *Boletín Chileno De Parasitología* 23: 164.
- BRISTOL, J. R., AND A. G. CANARIS. 1973. Physiology, ecology, and life cycle of *Brachylaima microti* (Trematoda). *American Philosophical Society Year Book* 1973: 296-298.
- CABALLERO, Y C. E. 1960. Trematodos de los murcielagos de Mexico. VIII. Catalogo taxonomico de los trematodos que parasitan a los murcielagos (Mammalia, Chiroptera Blumenbach, 1774). *Anales del Instituto de Biología. Universidad de Mexico* 31: 215-287.
- CONTI, J. A., D. J. FORRESTER, R. K. FROHLICH, G. L. HOFF, AND W. J. BIGLER. 1984. Helminths of urban gray squirrels in Florida. *Journal of Parasitology* 70: 143-144.
- CORDY, D. R. AND J. R. GORHAM. 1950. The pathology and etiology of salmon disease in the dog and fox. *American Journal of Pathology* 26:617-637.
- CURTICE, C. 1892. Parasites, being a list of those infesting domesticated animals and man in the United States. *Journal of Comparative Medicine and Veterinary Archives* (1892): 223-236.
- DIKMANS, G. 1939. Helminth parasites of North American semidomesticated and wild ruminants. *Proceedings of the Helminthological Society of Washington* 6: 97-101.
- DORAN, D. J. 1955. A catalogue of the Protozoa and helminths of North American rodents. IV. Trematoda. *The American Midland Naturalist* 53: 446-454.
- FOREYT, W. J., AND A. C. TODD. 1979. Selected clinicopathological changes associated with experimentally induced *Fascioloides magna* infection in white-tailed deer. *Journal of Wildlife Diseases* 15: 83-89.
- GERACI, J. R., AND D. J. STAUBIN. 1987. Effects of parasites on marine mammals. *International Journal of Parasitology* 17: 407-414.
- GOMES, D. C., AND J. J. VICENTE. 1972. Estudo do genero *Rhopalias* Stiles and Hassall, 1898 (Trematoda, Rhopaliasidae). *Memoirs of the Institute of Oswaldo Cruz* 70: 115-133.
- HARWOOD, P. D. 1939. Notes on Tennessee helminths. IV. North American trematodes of the subfamily Notocotylinae. *Journal of the Tennessee Academy of Science* 14: 332-340.
- KITSNER, T. P., AND L. D. KOLLER. 1975. Experimentally induced *Fasciola hepatica* infections in black-tailed deer. *Journal of Wildlife Diseases* 11: 214-220.
- KRULL, W. H. 1934. New experimental hosts for *Brachylaemus virginiana* (Dickerson) Krull. *Journal of the Washington Academy of Science* 24: 483-485.
- LAMOTHE-ARGUMEDO, R. 1985. La paragonimiasis en el continente Americano. *Salud Publica del Mexico* 27: 514-523.
- LAMOTHE-ARGUMEDO, R., AND B. J. CRUZ. 1982. Trematoda-Parasitic stages. In: *Aquatic Biota of Mexico, Central America and the West Indies*. S. H. Hurlbert and A. Villalobos-Figueroa, eds. San Diego State University, San Diego, California.
- LAMOTHE-ARGUMEDO, R., E. A. MALEK, AND O. MEAVE-GALLEGOS. 1983. *Aroapyrgus alleei* Morrison, 1946 (Gastropoda:Hydrobiidae) first intermediate host of *Paragonimus mexicanus* in Colima, Mexico. *Journal of Parasitology* 69: 226-228.

- LAMOTHE-ARGUMEDO, R., AND R. B. MADRIGAL. 1983. Descripción de una especie nueva de *Amphimerus* Barker, 1911 (Trematoda: Opisthorchidae) de Costa Rica. Anales del Institute de Biología. Universidad Nal Auton del Mexico 54, Ser Zoología 1: 13-21.
- MAS-COMA, S., J. G. ESTEBAN, AND M. A. VALERO. 1986. The genus *Scaphiostomum* Braun, 1901 (Trematoda: Brachylaimidae): A systematic review and description of *Scaphiostomum palaearticum* n. sp.. Systematic Parasitology 8: 141-150.
- MILLEMANN, R. E. AND S. E. KNAPP. 1970. Biology of *Nanophyetus salmincola* and "Salmon Poisoning" disease. Advances In Parasitology 8: 1-41.
- MIYAZAKI, I. 1964. Notes on the metacercaria of *Paragonimus kellicotti* Ward, 1908 in North America (Trematoda: Troglotrematidae). Japanese Journal of Parasitology 13: 453-457.
- MIYAZAKI, I., AND Y. ISHII. 1968. Comparative study of the Mexican lung flukes with *Paragonimus kellicotti* Ward, 1908. Journal of Parasitology 54: 845-846.
- OLIVIER, L. 1952. A comparison of infections in mice with three species of schistosomes, *Schistosoma mansoni*, *Schistosoma japonicum* and *Schistosomatium douthitti*. American Journal of Hygiene 55: 22-35.
- PRICE, E. W. 1953. The fluke situation in American ruminants. Journal of Parasitology 39: 119-134.
- REDETZKE, K.A., AND A. G. CANARIS. 1977. *Brachylaima microti*: A mechanistic simulation model of the parasite, its intermediate snail host, *Oreohelix strigosa* and its definitive rodent hosts, *Paromyscus maniculatus* and *Microtus montanus*. Experimental Parasitology 41: 229-241.
- REYNOLDS, B. D. 1938. Metacercariae of a species of *Brachylaemus*, probably *B. virginianus*, from *Agriolimax agrestis*. Journal of Parasitology 24: 377-378.
- ROGERS, L. L., AND S. M. ROGERS. 1974. Parasites of bears: A review. In bears - their biology and management. M. R. Pelton, J. W. Lentfer, and G. E. Folk eds. The International Union for Conservation of Nature and Natural Resources 40: 411-430.
- SAMUEL, W. M. 1968. Endoparasites of domestic ruminants and white-tailed deer. Transactions of the Thirty-third North American Wildlife and Natural Resources Conference: 364-372.
- SHOOP, W. L., AND K. C. CORKUM. 1987. Maternal transmission by *Alaria marcianae* (Trematoda) and the concept of amphiparatensis. Journal of Parasitology 73: 110-115.
- SIMMS, B. T., C. R. DONHAM, AND J. N. SHAW. 1931. Salmon poisoning. American Journal of Hygiene 13: 363-391.
- TANABE, B. 1923. The life history of a new schistosome, *Schistosomatium pathlocopticum* Tanabe, found in experimentally infected mice. Journal of Parasitology 9: 183-198.
- ULMER, M. J. 1951. *Postharmostomum helicis* (Leidy, 1847) Robinson, 1949, (Trematoda), its life history and revision of the subfamily Brachylaeminae. Transactions of the American Microscopical Society 70: 189-238.



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N.L.C. - B.N.C.



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